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2/2/2015
KATAHDIN ANALYTICAL SERVICES, INC.

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. WE-15 SDG NO. SI0230 SDG NOS. TO FOLLOW _____
SAS NO. _____

CONTRACT NO. _____
SOW NO. _____

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)	0000001	0000013	✓	
2. **SDG Case Narrative**	0000016	0000021	✓	
3. **SDG Cover Sheet/Traffic Report**	0000014	0000015	✓	
4. **Volatiles Data** - 624				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000031	0000033	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	—	—	✓	
Method Blank Summary (Form IV VOA)	0000034	0000035	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000036		✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000039	0000040	✓	
b. Sample Data	0000041	0000064	✓	
TCL Results - (Form I VOA-1, VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	0000065	0000124	✓	
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data			✓	
BFB	0000125	0000133	✓	
Blank Data	0000134	0000143	✓	
Martix Spike/Matrix Spike Duplicate Data	0000144	0000153	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. WE-15 SDG NO. SI0230 SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)	0000001	0000003	✓	
2. **SDG Case Narrative**	0000016	0000021	✓	
3. **SDG Cover Sheet/Traffic Report**	0000014	0000015	✓	
4. **Volatiles Data** - 8260				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000164	0000166	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	0000167	—	✓	
Method Blank Summary (Form IV VOA)	0000167	0000167	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000168	0000168	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000169	0000170	✓	
b. Sample Data	0000171	0000178		
TCL Results - (Form I VOA-1, VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	0000179	0000214		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data			✓	
BFB	0000215	0000217	✓	
Blank Data	0000218	0000222	✓	
Martix Spike/Matrix Spike Duplicate Data	0000223	0000228	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. S10230 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. Semivolatiles Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	0000232	0000234	✓	
MS/MSD Summary (Form III SV)	—	—	✓	
Method Blank Summary (Form IV SV)	0000235	0000235	✓	
GC/MS Instrument Performance Check (Form V SV)	0000236	0000237	✓	
Internal Standard Area and RT Summary (Form VIII SV)	0000238	0000239	✓	
b. Sample Data	0000240	0000247		
TCL Results - (Form I SV-1, SV-2)			✓	
Tentatively Identified Compounds (Form I SV-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	0000248	0000312		
Initial Calibration Data (Form VI SV-1, SV-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	0000313	0000326	✓	
Blank Data	0000327	0000332	✓	
Matrix Spike/Matrix Spike Duplicate Data	0000333	0000343	✓	
e. Raw ~~GPC~~ Data	0000344	0000345	✓	
ACB				
6. ~~Pesticides~~ Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	0000346A	0000349A	✓	
MS/MSD Duplicate Summary (Form III PEST)	—	—	✓	
Method Blank Summary (Form IV PEST)	0000350	0000351	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE-15 SDG NO. SI0230 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
PCB				
6. ~~Pesticides~~ Data (Cont.)				
b. Sample Data	0000354	0000376		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	
c. Standards Data	0000377	0000466		
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)			—	—
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)			✓	
Analyte Resolution Summary (Form VI PEST-4)			—	
Performance Evaluation Mixture (Form VI PEST-5)			—	
Individual Standard Mixture A (FORM VI PEST-6)			✓	
Individual Standard Mixture B (FORM VI PEST-7)			✓	
Calibration Verification Summary (Form VII PEST-1)			✓	
Calibration Verification Summary (Form VII PEST-2)			—	
Analytical Sequence (Form VIII PEST)			—	
Florisil Cartridge Check (Form IX PEST-1)			—	
Pesticide GPC Calibration (Form IX PEST-2)			—	
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)			✓	
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)			✓	
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data	0000467	0000477	✓	
Matrix Spke/Matrix Spike Duplicate Data	0000478	0000495	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. CE-15 SDG NO. SI0230 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
PCB				
6. ~~Pesticides~~ Data (Cont.)				
e. Raw ~~GPC~~ Data	0000496	0000503	✓	
f. Raw Florisil Data	—	—	✓	
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages -624	0000160	0000163	✓	
Internal sample and sample extract transfer chain-of-custody records	0000027	0000030	✓	
Screening records	—	—	✓	
All instrument output, including strip charts from screening activities (describe or list)				
Form 8 - GC Analytical Sequence - PCB	0000352	0000353	✓	
	—	—	✓	
8. **EPA Shipping/Receiving Documents**	See Page 8	See page 8		
Airbills (No. of shipments _____)			✓	
Chain-of-Custody Records			✓	
Sample Tags			✓	
Sample Log-in Sheet (Lab & DC1)			✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
Sample Receipt Condition Report			✓	
Login Chain of Custody			✓	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
			✓	
			✓	
10. **Other Records** (describe or list)				
Telephone Communication Log			✓	
			✓	
	↓	↓	✓	

11. Comments: _____

FORM DC-2-4 OLM04.2

CASE NO. WE-15 SDG NO. SI0230 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	NA	NA	NA	
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results - (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass Spectra of TICs with three best library matches				
GPC chromatograms (if GPC is required)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data	↓	↓	↓	

TPH

6. ~~Pesticides~~ **Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	0000504	0000504	✓	
MS/MSD Duplicate Summary (Form III PEST)	—	—	✓	
Method Blank Summary (Form IV PEST)	0000507	0000507	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. SF0232 SDG NO. WE-15 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

TPH

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. ~~Pesticides~~ Data (Cont.)				
b. Sample Data	0000509	0000514		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	
c. Standards Data	0000515	0000535		
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)			—	
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)			✓	
Analyte Resolution Summary (Form VI PEST-4)			—	
Performance Evaluation Mixture (Form VI PEST-5)			—	
Individual Standard Mixture A (FORM VI PEST-6)			✓	
Individual Standard Mixture B (FORM VI PEST-7)			✓	
Calibration Verification Summary (Form VII PEST-1)			✓	
Calibration Verification Summary (Form VII PEST-2)			✓	
Analytical Sequence (Form VIII PEST)			—	
Florisil Cartridge Check (Form IX PEST-1)			—	
Pesticide GPC Calibration (Form IX PEST-2)			—	
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)			—	
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)			✓	
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data	0000536	0000539	✓	
Matrix Spke/Matrix Spike Duplicate Data	0000540	0000544	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE-15 SDG NO. SI0230 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

TPH

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. ~~Pesticides~~ Data (Cont.)				
e. Raw ~~GPC~~ Data	0000545	0000549	✓	
f. Raw Florisil Data	—	—	✓	
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages -8260	0000229	0000231	✓	
Internal sample and sample extract transfer chain-of-custody records	0000027	0000030	✓	
Screening records	—	—	✓	
All instrument output, including strip charts from screening activities (describe or list)				
Form 8-GC Analytical Sequence - TPH	0000567	0000568	✓	
	—	—	✓	
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments _____)	—	—	✓	
Chain-of-Custody Records	0000023	0000023	✓	
Sample Tags			✓	
Sample Log-in Sheet (Lab & DC1)	—	—	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
Sample Receipt Condition Report	0000022	0000022	✓	
Login Chain of Custody	0000024	0000026	✓	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
	—	—	✓	
	—	—	✓	
10. **Other Records** (describe or list)				
Telephone Communication Log	—	—	✓	
	—	—	✓	
	—	—	✓	

11. **Comments:** —

FORM DC-2-4 OLM04.2

0000028

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE-15 SDG NO. SI0230 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	Leslie Dimond (Signature)	Leslie Dimond-QAO (Printed Name/Title)	020215 (Date)
Verified by: (CLP Lab)	_____ (Signature)	_____ (Printed Name/Title)	_____ (Date)
Audited by: (EPA)	_____ (Signature)	_____ (Printed Name/Title)	_____ (Date)

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, ME
CASE NO. SDG230 SDG NO. GJE-15 SDG NOS. TO FOLLOW
CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - ILM05.4, Exhibit B Section 2.6)

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1. Cover Page	0000004	0000015	✓	
2. SDG Narrative	0000016	0000021	✓	
3. Sample Log-In Sheet (DC-1)	—	—	✓	
4. Inventory Sheet (DC-2))	0000001	0000013	✓	
5. Traffic Report/Chain of Custody Record(s)	0000023	0000023	✓	
Inorganic Analysis — Metals				
6. Data Sheet (Form I-IN)	0000550	0000557	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	0000558	0000573	✓	
8. CRQL Standard(Form IIB-IN)	0000574	0000579	✓	
9. Blanks (Form III-IN)	0000580	0000597	✓	
10. ICP-AES Interference Check Sample (Form IVA-IN)	0000598	0000600	✓	
11. ICP-MS Interference Check Sample(Form IVB-IN)	—	—	✓	
12. Matrix Spike Sample Recovery(Form VA-IN)	0000601	0000602	✓	
13. Post-Digestion Spike Sample Recovery(Form VB-IN)	0000603	0000604	✓	
14. Duplicates (Form VI-IN)	~~0000~~	—	✓	
15. Laboratory Control Sample(Form VII-IN)	0000605	0000610	✓	
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	0000611	0000611	✓	
17. Method Detection Limits (Annually) (Form IX-IN)	0000612	0000617	✓	
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	0000618	0000618	✓	
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	—	—	✓	
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	0000619	0000619	✓	
21. Preparation Log (Form XII-IN)	0000620	0000625	✓	
22. Analysis Run Log (Form XIII-IN)	0000626	0000637	✓	

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
23. ICP-MS Tune (Form XIV-IN)	—	—	✓	
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	—	—	✓	
25. ICP-AES Raw Data	0000638	0000828	✓	
26. ICP-MS Raw Data	—	—	✓	
27. Mercury Raw Data	—	—	✓	
28. Cyanide Raw Data	—	—	✓	
29. Preparation Logs Raw Data (~~Wet Chemistry~~ Metals)	0000829	0000838	✓	
30. Percent Solids Determination Log	—	—	✓	
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	—	—	✓	
Sample Tags	—	—	✓	
Sample Log-In Sheet (Lab)	—	—	✓	
32. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	—	—	✓	
Sample Receipt Condition Report	0000022	0000022	✓	
	—	—	✓	
33. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	—	—	✓	
Internal Chain of Custody	0000027	0000030	✓	
Login Chain of Custody Report	0000024	0000026	✓	
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	—	—	✓	
Analysis Records	—	—	✓	
Description Duplicate Precision Form	—	—	✓	
35. Other Records (describe or list)	—	—	✓	
Telephone Communications Log	—	—	✓	
DAS Specifications	—	—	✓	

36. Comments —

Completed by:
(CLP Lab) Leslie Dimond — Leslie Dimond - QAO — 020215
(Signature) (Print Name & Title) (Date)

Audited by:
(USEPA) _____ _____ _____
(Signature) (Print Name & Title) (Date)

FORM DC-2-2 M&E DAS

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, ME
CASE NO. WE-15 SDG NO. SI0230 SDG NOS. TO FOLLOW
CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - ILM05.4, Exhibit B Section 2.6)

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1. Cover Page	0000014	0000015	✓	
2. SDG Narrative	0000016	0000023	✓	
3. Sample Log-In Sheet (DC-1)	—	—	✓	
4. Inventory Sheet (DC-2))	0000001	0000013	✓	
5. Traffic Report/Chain of Custody Record(s)	0000003	0000003	✓	
Inorganic Analysis — Wet Chemistry				
6. Data Sheet (Form I-IN)	0000844	0000849	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	—	—	✓	
8. CRQL Standard(Form IIB-IN)	—	—	✓	
9. Blanks (Form III-IN)	0000835	0000841	✓	
10. ICP-AES Interference Check Sample (Form IVA-IN)	—	—	✓	
11. ICP-MS Interference Check Sample(Form IVB-IN)	—	—	✓	
12. Matrix Spike Sample Recovery(Form VA-IN)	—	—	✓	
13. Post-Digestion Spike Sample Recovery(Form VB-IN)	—	—	✓	
14. Duplicates (Form VI-IN)	0000843	0000843	✓	
15. Laboratory Control Sample(Form VII-IN)	0000842	0000842	✓	
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	—	—	✓	
17. Method Detection Limits (Annually) (Form IX-IN)	—	—	✓	
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	—	—	✓	
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	—	—	✓	
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	—	—	✓	
21. Preparation Log (Form XII-IN)	—	—	✓	
22. Analysis Run Log (Form XIII-IN)	—	—	✓	

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
23. ICP-MS Tune (Form XIV-IN)	—	—	✓	
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	—	—	✓	
25. ~~ICP-AES~~ Raw Data - Wet chemistry	0000850	0000880	✓	
26. ICP-MS Raw Data	—	—	✓	
27. Mercury Raw Data	—	—	✓	
28. Cyanide Raw Data	—	—	✓	
29. Preparation Logs Raw Data (Wet Chemistry)	—	—	✓	
30. Percent Solids Determination Log	—	—	✓	
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	—	—	✓	
Sample Tags	—	—	✓	
Sample Log-In Sheet (Lab)	—	—	✓	
32. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	—	—	✓	
Sample Receipt Condition Report	0000022	0000022	✓	
	—	—	✓	
33. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	—	—	✓	
Internal Chain of Custody	0000027	0000030	✓	
Login Chain of Custody Report	0000024	0000026	✓	
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	—	—	✓	
Analysis Records	—	—	✓	
Description Duplicate Precision Form	—	—	✓	
35. Other Records (describe or list)	—	—	✓	
Telephone Communications Log				
DAS Specifications	—	—	✓	

36. Comments —

Completed by:
(CLP Lab) Leslie Dimond — Leslie Dimond - QAO — 020215
(Signature) (Print Name & Title) (Date)

Audited by:
(USEPA) _____ _____ _____
(Signature) (Print Name & Title) (Date)

FORM DC-2-2 M&E DAS

0000013

ENSAFE
NAVY CLEAN WE15-03-06
NWIRP BETHPAGE, NY
SI0230

KATAHDIN ANALYTICAL SERVICES, LLC
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ENSAFE
NAVY CLEAN WE15-03-06 NWIRP BETHPAGE, NY
SI0230

Sample Receipt

The following samples were received on January 14, 2015 and were logged in under Katahdin Analytical Services work order number SI0230 for a hardcopy due date of February 2, 2015.

KATAHDIN Sample No.	ENSAFE Sample Identification
SI0230-1	IDWS-0312011315
SI0230-2	IDWGW-3178-011315
SI0230-3	IDWGW-F0A37-011315
SI0230-4	IDWGW-EG332-011315

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Jennifer Obrin**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order SI0230 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979 Revised 1983, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8270D Analysis

All soil samples and associated QC were subjected to the GPC sample clean-up process.

The initial calibration analyzed on the U instrument on 01/12/2015 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or

quadratic model was used for quantitation instead of an average response factor. The target analyte 4-chloroaniline failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990 respectively. This compound was calibrated using the average model. The corresponding independent check standard (file U9213) had a low concentration for the target analyte 3,3'-dichlorobenzidine, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL. The Independent Check Report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated. The CV (file U9269) had a high response for the target analyte hexachlorocyclopentadiene and low responses for diethylphthalate and 4-nitroaniline, which resulted in %D's that were greater than the DoD QSM acceptance limit of 20% DoD QSM.

8260C Analysis

There were no protocol deviations or observations noted by the organics laboratory staff for this analysis.

E624 Analysis

Samples SI0230-2, 3, and 4 were manually integrated for the target analyte acetone. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

The initial calibration was calibrated at the following concentrations: 1, 5, 20, 50, 100, and 200ug/l. The calibration verification standard (CV) was analyzed at a concentration 20 ug/l as specified in the method. The acceptance criterion for the CV is that the concentration of each target analyte must be within a specific concentration range. The data system does not have a Form 7 for an EPA method 624 CV that lists the %D for each analyte. Instead, a Recovery Report sheet was used that lists the spiked Concentration added for each analyte, the Concentration Recovered, the % Recovered, and Limits. The Limits column lists the method acceptable concentration range. The % Recovered column is the concentration recovered divided by the Concentration Added. This column is disregarded. The Concentration Recovered is manually compared to the method acceptable concentration range.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are method limits for the full list of spiked compounds and nominal limits for all additional compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is not to take corrective action until the number of spiked analytes in the LCS that are outside of the QC limits is not greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

The LCS WG157009-1 had low recoveries for four target analytes and the LCS WG157065-1 had low recoveries for eight target analytes that were outside of the method acceptance limits. The DoD QSM allowable number of exceedances for 51 analytes is 3.

8015M TPH Analysis

Sample SI0230-1 was manually integrated for the surrogate o-terphenyl and TPH range. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

8082A Analysis

Samples SI0230-2, 3, and 4 had low recoveries for the surrogates DCB and/or TCX on both channels that were outside of the acceptance limits. Historically, these IDW samples have had low surrogate recoveries indicating the low recoveries are likely attributable to a matrix effect. Since these deviations have been previously discussed with Rick Purdy, and he concluded that these samples did not need to be reextracted, no further action was taken.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin Work Order SI0230 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

TCLP Extraction (EPA Method 1311)

Katahdin Sample Number SI0230 –1 is a soil sample that was subjected to TCLP extraction on 01/14/15 in accordance with USEPA Method 1311. The TCLP fluid blank identified as PBT1222A is associated with this extract. The measured concentrations of contaminants in this TCLP fluid blank are listed in Form 3P in the accompanying data package. The measured barium (70.4 ug/L) concentration in TCLP fluid blank PBT1222A is above the laboratory's reporting limit. However, because the concentrations of this element in the TCLP blank and in the associated TCLP extract are well below regulatory limits, reanalysis was not required.

The TCLP extract is identified throughout the raw data and on sample preparation and analysis run logs by the suffix "T" appended to the Katahdin Sample Number, e.g. "SI0230 -001T".

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix TCLP extraction blank PBT1222A was digested for ICP analysis on 01/07/15 (QC Batch IA07ICW2) in accordance with USEPA Method 3010A.

Aqueous-matrix Katahdin Sample Numbers SI0230 – (2-4) were digested for ICP analysis on 01/14/15 (QC Batch IA14ICW2) in accordance with USEPA Method 3010A. Katahdin Sample Number SI0230-4 was prepared with duplicate matrix spiked aliquots.

Aqueous-matrix TCLP extraction of SI0230 –1 was digested for ICP analysis on 01/16/15 (QC

Batch IA16ICW1) in accordance with USEPA Method 3010A.

ICP analyses of Katahdin Work Order SI0230 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010C. All samples were analyzed within holding times and all analytical run QC criteria were met.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous TCLP extraction blank PBT1222A was digested for mercury analysis on 01/07/15 (QC Batch IA07HGW1) in accordance with USEPA Method 7470A.

Aqueous-matrix Katahdin Sample Numbers of SI0230 – (2-4) were digested for mercury analysis on 01/14/15 (QC Batch IA14HGW2) in accordance with USEPA Method 7470A.

Aqueous-matrix TCLP extraction of SI0230-1 was digested for mercury analysis on 01/16/15 (QC Batch IA16HGW1) in accordance with USEPA Method 7470A.

Mercury analysis of the Katahdin Work Order SI0230 sample digestates were performed using a Cetac M6100 automated mercury analyzer in accordance with USEPA Methods 7470A. All analytical run QC criteria were met and all samples were analyzed within holding times.

Matrix QC Summary

The measured recoveries of aluminum, antimony, calcium, iron, and magnesium in one or both of the matrix-spiked aliquots of Katahdin Sample Number SI0230 -4 are outside the project acceptance criteria (80% - 120% recovery of the added element, if the native concentration is less than four times the amount added). For aluminum and iron, this may be attributed to the native concentration in the sample being significantly higher than the spike amount added.

The matrix-spike duplicate analysis of Katahdin Sample Number SI0230 -4 are within the laboratory's acceptance limit (<20% relative difference between duplicate matrix-spiked aliquots) for all analytes.

The serial dilution analysis of Katahdin Sample Number SI0230 -4 is within the project acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the LOD) for all analytes.

The measured recoveries of all analytes in the post-digestion spiked aliquot of Katahdin Sample Number SI0230 -4 are within the acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added).

Reporting of Metals Results

Per client request, analytical results for client samples on Form I and preparation blanks on Form IIIP have been reported using the laboratory's limits of detection (LOD). All results were evaluated down to the laboratory's method detection limits (MDLs). Results that fall between the MDL and the LOQ are flagged with "J" in the C-qualifier column, and the measured concentration appears in the concentration column. Results that are less than the MDL are

flagged with "U" in the C-qualifier column, and the LOD is listed in the concentration column. These LOQs, MDLs, and LODs have been adjusted for each sample based on the sample amounts used in preparation and analysis.

Analytical results on Forms VA, VD, VII, and IX for client samples, matrix QC samples (duplicates and matrix spikes), and laboratory control samples have been reported down to the laboratory's method detection limits (MDLs). Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column, and the measured concentration is listed in the concentration column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, LODs, MDLs, and LOQs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of Work Order SI0230 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for reactive cyanide, ignitability, reactive sulfide, paint filter liquids, and pH in soil were performed according to "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA,III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Analyses for total solids and pH in water were performed according to "Standard Methods for the Examination of Water and Wastewater", 15th, 16th, 17th, 18th, 19th, and 20th editions, 1980, 1985, 1989, 1992, 1995, 1999. APHA-AWWA-WPCF.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All analyses were performed within analytical holding times. All quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
09.02.15

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc. — Sample Receipt Condition Report

Client: ~~SIO7~~ AECOM	KAS PM: JO	Sampled By: Client
Project:	KIMS Entry By: GW	Delivered By: FedEx
KAS Work Order#: SIO230	KIMS Review By: JO	Received By: GW
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 1-7/4-15 / 09.00

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 4.0
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?	✓				
Soil/Sediment: Received in airtight container?	✓				
Received in methanol?	✓				
Methanol covering soil?	✓				
D.I. Water - Received within 48 hour HT?	✓			~~✓~~	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?		✓			
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

2 soil jars received broken

SI0230

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. 1 | Page 1 of 1

Project Name: NWIRP Bethpage | PO No. | Project No. 60266526 | Phase

Site Location: Bethpage

CTO No. | RC Project Manager: B. Caldwell

Sampler/Site Phone# G. Hicks / 845 425 4980

Lab Name: Katahdin | Turnaround Time(specify):

Sample Analysis Requested (*Enter number of containers for ea*

Preservative (3)→: 1, 1, 2, 3, 1, 1, 1, 1, 1, 4

IDWGW: total metals, pH, PCB, VOC 624
IDWS: reactive cyanide reactive sulphide; corr., IGN, pH; SVOC, PCB, TPH, TCLP metals; paint filter (D.O.E.); total solids; TCL VOC

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Containers	total metals	pH	PCB	VOC 624	reactive cyanide reactive sulphide	corr., IGN, pH	SVOC, PCB, TPH, TCLP metals	paint filter (D.O.E.)	total solids	TCL VOC	Extra Volume for MS/MSD	HOLD
1.	IDWS-0312-011315		011315	1130	So			9					1	1	1	1	1	4		
2.	IDWGW-3178-011315	#7	011315	1200	Gw			7	1	1	2	3								
3.	IDWGW-F0A37-011315	#6	011315	1230	Gw			7	1	1	2	3								
4.	IDWGW-EG332-011315	#1	011315	1300	Gw			7	1	1	2	3								

Field **Comments:** 1. Sampled roll off 0316 2. Sampled frac tank #7 (3178). 3. Sampled frac tank F0A37 (#6). 4. Sampled frac tank #1 (EG332)

Lab **Comments:**

Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1 [signature]	011315	1445	1 Fedex		
2			2 [signature]	1-14-15	09:00
3			3		

Sample Shipment and Delivery Details
Number of coolers in shipment: 3Ø
Samples Iced?(check) Yes ✓ No____
Method of Shipment: Fedex
Airbill No:
Date Shipped: 011315

(1) **AA**=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) Sample Type: AB=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) Preservative added: **HA**=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate, If **NO preservative** added leave blank

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jan. 14, 2015
01:04 PM

Login Number: SI0230

Account: ENSAFE001
ENSAFE

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

NoWeb

Quote/Incoming: AECOM-BETHPAGE

Primary Report Address:
Dana Miller
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134
dmiller@Ensafe.com

Primary Invoice Address:
Accounts Payable
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134

Report CC Addresses:

Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ. Must use soxhlet for PCB extraction.
CHECK NO.	:	
CLIENT PO#	:	16518
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	60266526
COOLER TEMPERATURE	:	4.0
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	GN
PM	:	JO
PROJECT NAME	:	Navy Clean WE15-03-06 NWIRP Bethpage, NY
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send HC and CD to Dana. Email invoice to purchasing@ensafe.com
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI0230-2	IDWGW-3178-011315	13-JAN-15 12:00	14-JAN-15		**19-JAN-15**	02-FEB-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E624-S	27-JAN-15	40mL Vial+HCl		**Frac Tank #7**
Aqueous	S	SM4500HB-PH	14-JAN-15	125mL Plastic		
Aqueous	S	SW8082	12-FEB-15	1L N-Amber Glass		
Aqueous	P	TAL-METALS-SW846				

SW3010-PREP	SW6010-ALUMINUM	SW6010-ANTIMONY
SW6010-ARSENIC	SW6010-BARIUM	SW6010-BERYLLIUM
SW6010-CADMIUM	SW6010-CALCIUM	SW6010-CHROMIUM
SW6010-COBALT	SW6010-COPPER	SW6010-IRON
SW6010-LEAD	SW6010-MAGNESIUM	SW6010-MANGANESE
SW6010-NICKEL	SW6010-POTASSIUM	SW6010-SELENIUM
SW6010-SILVER	SW6010-SODIUM	SW6010-THALLIUM
SW6010-VANADIUM	SW6010-ZINC	SW7470-MERCURY

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI0230-3	IDWGW-F0A37-011315	13-JAN-15 12:30	14-JAN-15		**19-JAN-15**	02-FEB-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E624-S	27-JAN-15	40mL Vial+HCl		**Frac Tank #6**
Aqueous	S	SM4500HB-PH	14-JAN-15	125mL Plastic		
Aqueous	S	SW8082	12-FEB-15	1L N-Amber Glass		
Aqueous	P	TAL-METALS-SW846				

SW3010-PREP	SW6010-ALUMINUM	SW6010-ANTIMONY
SW6010-ARSENIC	SW6010-BARIUM	SW6010-BERYLLIUM
SW6010-CADMIUM	SW6010-CALCIUM	SW6010-CHROMIUM
SW6010-COBALT	SW6010-COPPER	SW6010-IRON
SW6010-LEAD	SW6010-MAGNESIUM	SW6010-MANGANESE
SW6010-NICKEL	SW6010-POTASSIUM	SW6010-SELENIUM
SW6010-SILVER	SW6010-SODIUM	SW6010-THALLIUM
SW6010-VANADIUM	SW6010-ZINC	SW7470-MERCURY

01.14.15

000024

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jan. 14, 2015
01:04 PM

Login Number: SI0230

Quote/Incoming: AECOM-BETHPAGE

Account: ENSAFE001
ENSAFE

NoWeb

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI0230-4	IDWGW-EG332-011315	13-JAN-15 13:00	14-JAN-15		**19-JAN-15**	02-FEB-15	

Matrix		*Product*	*Hold Date (shortest)*	*Bottle Type*	*Bottle Count*	*Comments*
Aqueous	S	E624-S	27-JAN-15	40mL Vial+HCl		**Frac Tank #1**
Aqueous	S	SM4500HB-PH	14-JAN-15	125mL Plastic		
Aqueous	S	SW8082	12-FEB-15	1L N-Amber Glass		
Aqueous	P	TAL-METALS-SW846				

SW3010-PREP	SW6010-ALUMINUM	SW6010-ANTIMONY
SW6010-ARSENIC	SW6010-BARIUM	SW6010-BERYLLIUM
SW6010-CADMIUM	SW6010-CALCIUM	SW6010-CHROMIUM
SW6010-COBALT	SW6010-COPPER	SW6010-IRON
SW6010-LEAD	SW6010-MAGNESIUM	SW6010-MANGANESE
SW6010-NICKEL	SW6010-POTASSIUM	SW6010-SELENIUM
SW6010-SILVER	SW6010-SODIUM	SW6010-THALLIUM
SW6010-VANADIUM	SW6010-ZINC	SW7470-MERCURY

Total Samples: ***4*** ***Total Analyses:*** ***23***

01.14.15

0000025

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jan. 14, 2015
01:04 PM

Login Number: SI0230

Account: ENSAFE001
ENSAFE

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

NoWeb

Quote/Incoming: AECOM-BETHPAGE

Primary Report Address:
Dana Miller
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134
dmiller@Ensafe.com

Primary Invoice Address:
Accounts Payable
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134

Report CC Addresses:

Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ. Must use soxhlet for PCB extraction.
CHECK NO.	:	
CLIENT PO#	:	16518
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	60266526
COOLER TEMPERATURE	:	4.0
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	GN
PM	:	JO
PROJECT NAME	:	Navy Clean WE15-03-06 NWIRP Bethpage, NY
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send HC and CD to Dana. Email invoice to purchasing@ensafe.com
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI0230-1	IDWS-0312-011315	13-JAN-15 11:30	14-JAN-15		**20-JAN-15**	02-FEB-15	

Matrix		*Product*	*Hold Date (shortest)*	*Bottle Type*	*Bottle Count*	*Comments*
Solid	S	SW1010-IGNITABILITY	27-JAN-15	250mL Plastic		**Roll off 0316**
Solid	S	SW7.3.4-REAC CYANIDE	27-JAN-15	500mL P+ZnAc/NaOH		
Solid	S	SW7.3.4-REAC SULFIDE	20-JAN-15	100g Glass		
Solid	S	SW8015M-TPH	27-JAN-15	100g Glass		
Solid	S	SW8082	12-FEB-15	100g Glass		
Solid	S	SW8260TCL	27-JAN-15	40 mL Vial+DI+MEOH		
Solid	S	SW8270BNA	27-JAN-15	1L N-Amber Glass		
Solid	S	SW9045C-PH SOIL	10-FEB-15	100g Glass		
Solid	S	SW9095A-PNTFILTRTEST	10-FEB-15	50g Glass		
Solid	P	TCLP-METALS				
SW1311-EXT		SW3010-PREP		TCLP-ARSENIC		
TCLP-BARIUM		TCLP-CADMIUM		TCLP-CHROMIUM		
TCLP-LEAD		TCLP-MERCURY		TCLP-SELENIUM		
TCLP-SILVER						
Solid	S	TS	12-FEB-15	4oz Glass		

Total Samples: 4 ***Total Analyses: 23***

01.14.15

0000026

Katahdin Analytical Services, Inc.

Container Transfer History for SI0230

Samplenum SI0230-1

Container Id SI0230-1A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260TCL*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SI0230-1B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260TCL*

Transferdate	From	To	Analyst	Custody Break	Comments
19-JAN-15 15:02	VOA_FREEZER1	GC/MS	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department LOGIN on 01/14/15 09:43 .
20-JAN-15 12:06	GC/MS	VOA_FREEZER1	RCROCKER	N	

Container Id SI0230-1C **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260TCL*

Transferdate	From	To	Analyst	Custody Break	Comments
19-JAN-15 15:02	VOA_FREEZER1	GC/MS	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department LOGIN on 01/14/15 09:43 .
20-JAN-15 12:06	GC/MS	VOA_FREEZER1	RCROCKER	N	

Container Id SI0230-1E **Containertype 250mL Plastic** **Matrix AQ**

Product *TCLP-SILVER, TCLP-SELENIUM, TCLP-LEAD, TCLP-MERCURY, TCLP-BARIUM, TCLP-ARSENIC, TCLP-CADMIUM, TCLP-CHROMIUM*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
14-JAN-15 17:11	ORGANIC PREP	WALK-IN	AZAZZARA	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 01/14/15 10:16 .
15-JAN-15 11:22	WALK-IN	WET CHEMISTRY	AZAZZARA	N	
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
14-JAN-15 17:11	ORGANIC PREP	WALK-IN	AZAZZARA	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 01/14/15 10:16 .
15-JAN-15 11:22	WALK-IN	WET CHEMISTRY	AZAZZARA	N	

Container Id SI0230-1F **Containertype 250mL Plastic** **Matrix AQ**

Product *TCLP-SILVER, TCLP-MERCURY, TCLP-CADMIUM, TCLP-CHROMIUM, TCLP-LEAD, TCLP-SELENIUM, TCLP-BARIUM, TCLP-ARSENIC*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
14-JAN-15 12:38	WALK-IN	METALS PREP	EMORGAN	N	
14-JAN-15 17:41	METALS PREP	WALK-IN	EMORGAN	N	
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
14-JAN-15 12:38	WALK-IN	METALS PREP	EMORGAN	N	
14-JAN-15 17:41	METALS PREP	WALK-IN	EMORGAN	N	

Container Id SI0230-1G **Containertype 250mL Plastic** **Matrix AQ**

Product *TCLP-SILVER, TCLP-SELENIUM, TCLP-CHROMIUM, TCLP-BARIUM, TCLP-ARSENIC, TCLP-CADMIUM, TCLP-LEAD, TCLP-MERCURY*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
14-JAN-15 10:39	WALK-IN	WET CHEMISTRY	ROLIVER	N	
14-JAN-15 13:56	WET CHEMISTRY	WALK-IN	ROLIVER	N	
19-JAN-15 09:30	WALK-IN	ORGANIC PREP	JSPEARIN	N	
19-JAN-15 12:53	ORGANIC PREP	WALK-IN	JSPEARIN	N	
20-JAN-15 14:13	WALK-IN	WET CHEMISTRY	AZAZZARA	N	
20-JAN-15 17:14	WET CHEMISTRY	WALK-IN	DWRIGHT	N	
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
14-JAN-15 10:39	WALK-IN	WET CHEMISTRY	ROLIVER	N	
14-JAN-15 13:56	WET CHEMISTRY	WALK-IN	ROLIVER	N	
19-JAN-15 09:30	WALK-IN	ORGANIC PREP	JSPEARIN	N	
19-JAN-15 12:53	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Katahdin Analytical Services, Inc.
Container Transfer History for SI0230

Samplenum SI0230-1

Container Id SI0230-1G **Containertype 250mL Plastic** **Matrix SL**

Product *SW9095A-PNTFILTRTEST, SW1010-IGNITABILITY, SW8270BNA, SW8082, SW8015M-TPH, SW7.3.4-REAC CYANIDE, SW7.3.4-REAC SULFIDE, SW9045C-PH SOIL*

Transferdate	From	To	Analyst	Custody Break	Comments
20-JAN-15 14:13	WALK-IN	WET CHEMISTRY	AZAZZARA	N	
20-JAN-15 17:14	WET CHEMISTRY	WALK-IN	DWRIGHT	N	

Container Id SI0230-1H **Containertype 250mL Plastic** **Matrix SL**

Product *SW1010-IGNITABILITY*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	

Samplenum SI0230-2

Container Id SI0230-2A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
15-JAN-15 13:01	GC/MS	GC/MS	RCROCKER	N	
16-JAN-15 10:10	GC/MS	WALK-IN	RCROCKER	N	

Container Id SI0230-2B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SI0230-2C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SI0230-2D **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SM4500HB-PH*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
14-JAN-15 12:33	WALK-IN	WALK-IN	EMORGAN	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 01/14/15 10:16 .

Container Id SI0230-2E **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW7470-MERCURY, SW6010-VANADIUM, SW6010-SILVER, SW6010-SODIUM, SW6010-THALLIUM, SW6010-ZINC, SW6010-SELENIUM, SW6010-ALUMINUM, SW6010-ANTIMONY, SW6010-ARSENIC, SW6010-BARIUM, SW6010-BERYLLIUM, SW6010-CADMIUM, SW6010-CALCIUM, SW6010-CHROMIUM, SW6010-COBALT, SW6010-COPPER, SW6010-IRON, SW6010-LEAD, SW6010-MAGNESIUM, SW6010-MANGANESE, SW6010-NICKEL, SW6010-POTASSIUM*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
16-JAN-15 15:12	WALK-IN	WET CHEMISTRY	AZAZZARA	N	
16-JAN-15 17:06	WET CHEMISTRY	WALK-IN	DWRIGHT	N	

Container Id SI0230-2F **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8082*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	

Container Id SI0230-2G **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8082*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	

Samplenum SI0230-3

Container Id SI0230-3A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments

0000028

Katahdin Analytical Services, Inc.

Container Transfer History for SI0230

Samplenum SI0230-3

Container Id SI0230-3A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
15-JAN-15 13:01	GC/MS	GC/MS	RCROCKER	N	
16-JAN-15 10:10	GC/MS	WALK-IN	RCROCKER	N	

Container Id SI0230-3B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
15-JAN-15 13:01	GC/MS	GC/MS	RCROCKER	N	
16-JAN-15 10:10	GC/MS	WALK-IN	RCROCKER	N	

Container Id SI0230-3C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SI0230-3D **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SM4500HB-PH*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
14-JAN-15 12:33	WALK-IN	WALK-IN	EMORGAN	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 01/14/15 10:16 .

Container Id SI0230-3E **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW7470-MERCURY, SW6010-VANADIUM, SW6010-SILVER, SW6010-SODIUM, SW6010-THALLIUM, SW6010-ZINC, SW6010-SELENIUM, SW6010-CHROMIUM, SW6010-COBALT, SW6010-COPPER, SW6010-IRON, SW6010-LEAD, SW6010-MAGNESIUM, SW6010-MANGANESE, SW6010-NICKEL, SW6010-POTASSIUM, SW6010-ALUMINUM, SW6010-ANTIMONY, SW6010-ARSENIC, SW6010-BARIUM, SW6010-BERYLLIUM, SW6010-CADMIUM, SW6010-CALCIUM*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
16-JAN-15 15:12	WALK-IN	WET CHEMISTRY	AZAZZARA	N	
16-JAN-15 17:06	WET CHEMISTRY	WALK-IN	DWRIGHT	N	

Container Id SI0230-3F **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8082*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	

Container Id SI0230-3G **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8082*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	

Samplenum SI0230-4

Container Id SI0230-4A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
15-JAN-15 13:01	GC/MS	GC/MS	RCROCKER	N	
16-JAN-15 10:10	GC/MS	WALK-IN	RCROCKER	N	

Container Id SI0230-4B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
16-JAN-15 11:57	VOA_FRIDGE1	GC/MS	RCROCKER	N	
19-JAN-15 08:51	GC/MS	WALK-IN	RCROCKER	N	

Container Id SI0230-4C **Containertype 40mL Vial+HCl** **Matrix AQ**

0000029

Katahdin Analytical Services, Inc.
Container Transfer History for SI0230

Samplenum SI0230-4

Container Id SI0230-4C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *E624-S*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:17	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SI0230-4D **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SM4500HB-PH*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
14-JAN-15 12:33	WALK-IN	WALK-IN	EMORGAN	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 01/14/15 10:16 .

Container Id SI0230-4E **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW7470-MERCURY, SW6010-VANADIUM, SW6010-SODIUM, SW6010-SELENIUM, SW6010-NICKEL, SW6010-MAGNESIUM, SW6010-IRON, SW6010-ALUMINUM, SW6010-ANTIMONY, SW6010-ARSENIC, SW6010-BARIUM, SW6010-BERYLLIUM, SW6010-CADMIUM, SW6010-CALCIUM, SW6010-CHROMIUM, SW6010-COBALT, SW6010-COPPER, SW6010-LEAD, SW6010-MANGANESE, SW6010-POTASSIUM, SW601(SILVER, SW6010-THALLIUM, SW6010-ZINC*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	
16-JAN-15 15:12	WALK-IN	WET CHEMISTRY	AZAZZARA	N	
16-JAN-15 17:06	WET CHEMISTRY	WALK-IN	DWRIGHT	N	

Container Id SI0230-4F **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8082*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	

Container Id SI0230-4G **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8082*

Transferdate	From	To	Analyst	Custody Break	Comments
14-JAN-15 10:16	LOGIN	WALK-IN	GNICKERSON	N	

0000030

VOLATILES DATA
BY EPA METHOD 624

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI0230

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
IDWGW-3178-011315	SI0230-2		89.5		99.8		114.		89.1	
IDWGW-F0A37-011315	SI0230-3		92.3		98.7		114.		99.8	
IDWGW-EG332-011315	SI0230-4RA		99.8		112.		131.		101.	
Laboratory Control S	WG157009-1		101.		101.		106.		98.3	
Method Blank Sample	WG157009-2		97.9		107.		124.		98.9	
Laboratory Control S	WG157065-1		98.7		102.		112.		96.7	
Method Blank Sample	WG157065-2		101.		108.		128.		101.	

		QC Limits
DBF	DIBROMOFLUOROMETHANE	68-128
BFB	P-BROMOFLUOROBENZENE	56-133
TOL	TOLUENE-D8	65-128
DCA	1,2-DICHLOROETHANE-D4	67-135

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG157009-2
Lab File ID : C1003A.D
Date Analyzed : 15-JAN-15
Instrument ID : GCMS-C
Time Analyzed : 14:30
Heated Purge : No

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG157009-1	C0998.D	01/15/15	11:33
IDWGW-3178-011315	SI0230-2	C1013.D	01/16/15	07:44
IDWGW-F0A37-011315	SI0230-3	C1014.D	01/16/15	08:43

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG157065-2
Lab File ID : C1020.D
Date Analyzed : 16-JAN-15
Instrument ID : GCMS-C
Time Analyzed : 12:57
Heated Purge : No

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG157065-1	C1017.D	01/16/15	11:08
IDWGW-EG332-011315	SI0230-4RA	C1021.D	01/16/15	13:28

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Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : CB983A.D
Instrument ID : GCMS-C

SDG : SI0230
Date Analyzed : 29-DEC-14
Time Analyzed : 15:06
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.8		
75	30.0 - 60.0% of mass 95	51.9		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.8		
173	Less than 2.0% of mass 174	0.4	0.55	1
174	Greater than 50.0% of mass 95	76.2		
175	5.0 - 9.0% of mass 174	4.6	6.04	1
176	95.0 - 101.0% of mass 174	75.0	98.49	1
177	5.0 - 9.0% of mass 176	5.4	7.23	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG157320-4	C0792A.D	12/29/14	15:30
Initial Calibration	WG157320-3	C0793A.D	12/29/14	16:02
Initial Calibration	WG157320-2	C0794A.D	12/29/14	16:34
Initial Calibration	WG157320-1	C0795A.D	12/29/14	17:05
Initial Calibration	WG157320-6	C0796A.D	12/29/14	17:37
Initial Calibration	WG157320-5	C0797A.D	12/29/14	18:10
Independent Source	WG157320-7	C0800.D	12/29/14	19:52

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : CB993A.D
Instrument ID : GCMS-C

SDG : SI0230
Date Analyzed : 15-JAN-15
Time Analyzed : 08:44
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	24.8		
75	30.0 - 60.0% of mass 95	55.3		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	8.6		
173	Less than 2.0% of mass 174	0.4	0.63	1
174	Greater than 50.0% of mass 95	64.0		
175	5.0 - 9.0% of mass 174	4.8	7.52	1
176	95.0 - 101.0% of mass 174	63.5	99.25	1
177	5.0 - 9.0% of mass 176	4.4	6.99	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG157009-4	C0996.D	01/15/15	10:29
Laboratory Control S	WG157009-1	C0998.D	01/15/15	11:33
Method Blank Sample	WG157009-2	C1003A.D	01/15/15	14:30
IDWGW-3178-011315	SI0230-2	C1013.D	01/16/15	07:44
IDWGW-F0A37-011315	SI0230-3	C1014.D	01/16/15	08:43

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : CB994.D
Instrument ID : GCMS-C

SDG : SI0230
Date Analyzed : 16-JAN-15
Time Analyzed : 09:54
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.8		
75	30.0 - 60.0% of mass 95	54.5		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.8		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	63.7		
175	5.0 - 9.0% of mass 174	4.7	7.30	1
176	95.0 - 101.0% of mass 174	62.3	97.70	1
177	5.0 - 9.0% of mass 176	4.6	7.46	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG157065-4	C1016.D	01/16/15	10:24
Laboratory Control S	WG157065-1	C1017.D	01/16/15	11:08
Method Blank Sample	WG157065-2	C1020.D	01/16/15	12:57
IDWGW-EG332-011315	SI0230-4RA	C1021.D	01/16/15	13:28

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG157320-3
Lab File ID : C0793A.D

SDG: SI0230
Analytical Date: 12/29/14 16:02
Instrument ID: GCMS-C

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	516207		8.04		840628		8.71		849470		12.19	
	Upper Limit	1032414		8.54		1681256		9.21		1698940		12.69	
	Lower Limit	258103.5		7.54		420314		8.21		424735		11.69	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG157009-4	426057		8.04		735895		8.70		757120		12.19	
Laboratory Control S	WG157009-1	459323		8.04		780858		8.71		810293		12.19	
Method Blank Sample	WG157009-2	381289		8.04		686259		8.71		707120		12.19	
IDWGW-3178-011315	SI0230-2	343501		8.04		603703		8.70		615008		12.19	
IDWGW-F0A37-01131	SI0230-3	426384		8.04		716147		8.70		700052		12.19	
Continuing Calibrati	WG157065-4	401630		8.04		676311		8.70		699338		12.19	
Laboratory Control S	WG157065-1	406564		8.04		695036		8.70		707793		12.19	
Method Blank Sample	WG157065-2	347102		8.04		607945		8.71		639998		12.19	
IDWGW-EG332-01131	SI0230-4RA	332638		8.04		597642		8.70		623155		12.19	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG157320-3
Lab File ID : C0793A.D

SDG: SI0230
Analytical Date: 12/29/14 16:02
Instrument ID: GCMS-C

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	466438		15.52	
	Upper Limit	932876		16.02	
	Lower Limit	233219		15.02	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG157009-4	417579		15.52	
Laboratory Control S	WG157009-1	462944		15.52	
Method Blank Sample	WG157009-2	373696		15.52	
IDWGW-3178-011315	SI0230-2	342616		15.52	
IDWGW-F0A37-01131	SI0230-3	364750		15.52	
Continuing Calibrati	WG157065-4	402358		15.52	
Laboratory Control S	WG157065-1	402103		15.52	
Method Blank Sample	WG157065-2	343663		15.52	
IDWGW-EG332-01131	SI0230-4RA	333150		15.52	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-2
Client ID: IDWGW-3178-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: C1013.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157009

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	5	5.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	5	5.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	5	5.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	5	5.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	10	10.	1.1	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.25	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	5	5.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	5	5.0	0.22	0.50
Benzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Trichloroethene		7.8	ug/L	1	5	5.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	5	5.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.19	0.50
Toluene	U	0.50	ug/L	1	5	5.0	0.27	0.50
trans-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	5	5.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	5	5.0	0.30	0.50
Chlorobenzene	U	0.50	ug/L	1	5	5.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Bromoform	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	5	5.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.15	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Freon-113	U	0.50	ug/L	1	5	5.0	0.31	0.50
Acetone	J	7.4	ug/L	1	10	10.	2.2	2.5
Carbon Disulfide	U	0.50	ug/L	1	5	5.0	0.25	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-2
Client ID: IDWGW-3178-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: C1013.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157009

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Methyl tert-butyl Ether	U	0.50	ug/L	1	5	5.0	0.36	0.50
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	10	10.	0.21	1.0
2-Butanone	U	2.5	ug/L	1	10	10.	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	5	5.0	0.31	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
1,2-Dibromoethane	U	0.50	ug/L	1	5	5.0	0.22	0.50
Xylenes (Total)	U	1.5	ug/L	1	15	15.	0.25	1.5
M+P-Xylenes	U	1.0	ug/L	1	10	10.	0.59	1.0
o-Xylene	U	0.50	ug/L	1	5	5.0	0.25	0.50
Styrene	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,2-Dibromo-3-Chloropropane	U	0.50	ug/L	1	5	5.0	0.50	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	5	5.0	0.37	0.50
Isopropylbenzene	U	0.50	ug/L	1	5	5.0	0.23	0.50
Methyl Acetate	U	0.75	ug/L	1	5	5.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	5	5.0	0.30	0.50
1,2-Dichloroethane-D4		114.	%					
Toluene-D8		89.1	%					
P-Bromofluorobenzene		89.5	%					
Dibromofluoromethane		99.8	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1013.D
Report Date: 16-Jan-2015 14:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C011515.b\C1013.D
Lab Smp Id: SI0230-2 Client Smp ID: IDWGW-3178-011315
Inj Date : 16-JAN-2015 07:44 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SI0230-2
Misc Info : WG157009,WG156347-4
Comment :
Method : \\TARGET_SERVER\GG\chem\gcms-c.i\C011515.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: GCMS-D

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

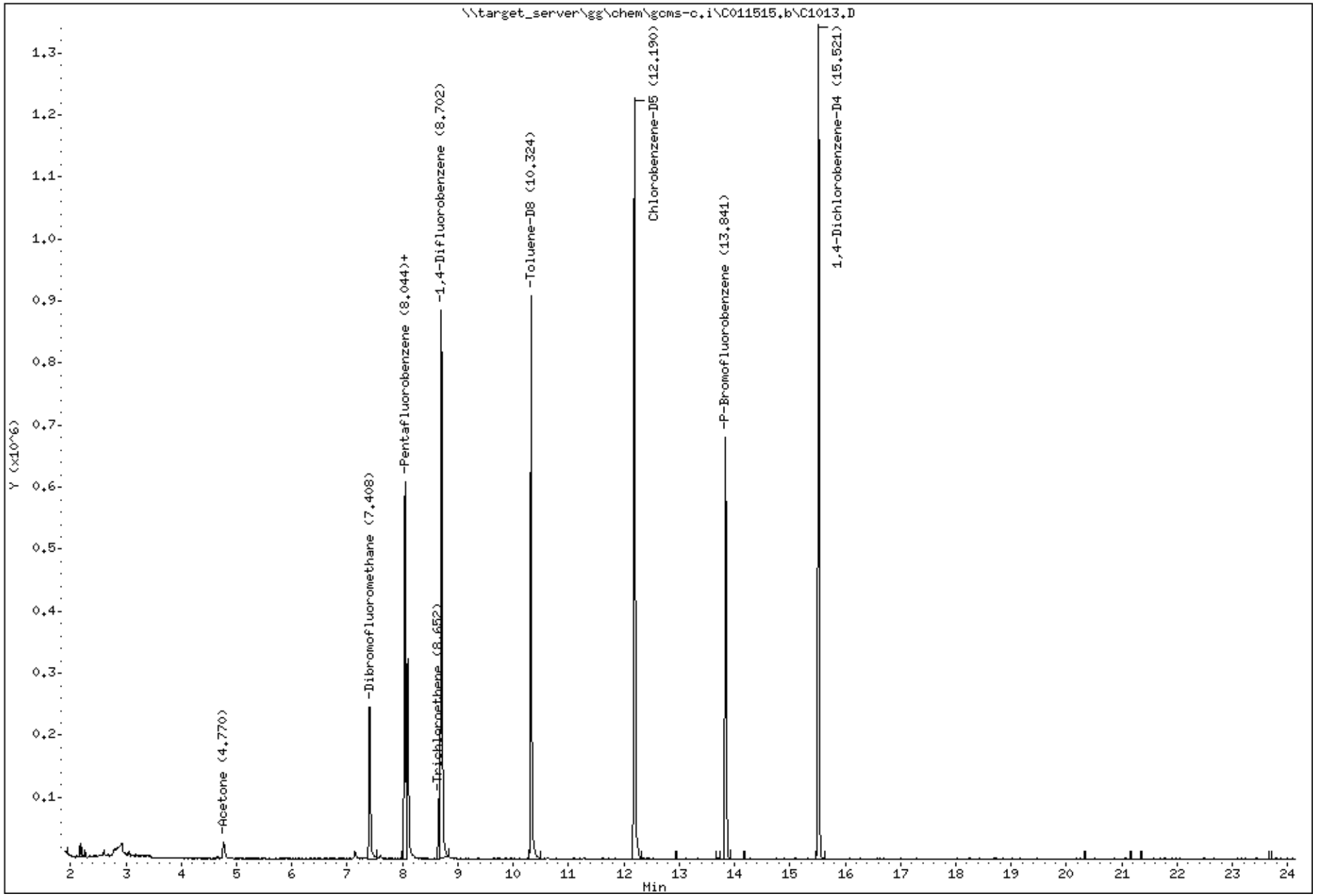
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	15 Acetone	43	4.770	4.752	(0.593)	11189	7.37446	7.4(M)	M9
$	37 Dibromofluoromethane	113	7.400	7.404	(0.920)	159596	49.9029	49.9	
*	42 Pentafluorobenzene	168	8.044	8.039	(1.000)	343501	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.094	8.090	(1.006)	231812	57.2558	57.2	
	48 Trichloroethene	95	8.651	8.654	(0.994)	29519	7.75643	7.8	
*	49 1,4-Difluorobenzene	114	8.701	8.705	(1.000)	603703	50.0000		
$	55 Toluene-D8	98	10.324	10.320	(1.186)	517635	44.5325	44.5	
*	66 Chlorobenzene-D5	117	12.189	12.193	(1.000)	615008	50.0000		
$	76 P-Bromofluorobenzene	95	13.841	13.837	(1.591)	233490	44.7383	44.7	
*	91 1,4-Dichlorobenzene-D4	152	15.520	15.517	(1.000)	342616	50.0000		

WAS
1:45 pm, Jan 21, 2015

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1013.D
Date : 16-JAN-2015 07:44
Client ID: IDWGW-3178-011315 Instrument: gcms-c.i
Sample Info: SI0230-2



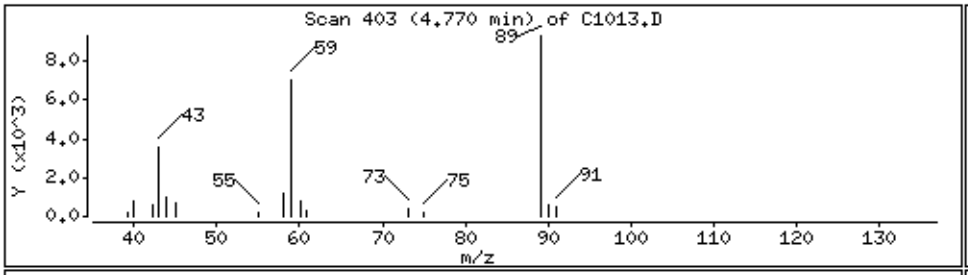
Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1013.D

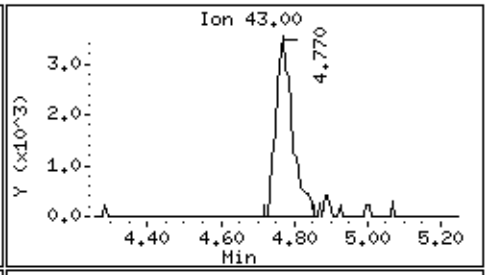
Date : 16-JAN-2015 07:44

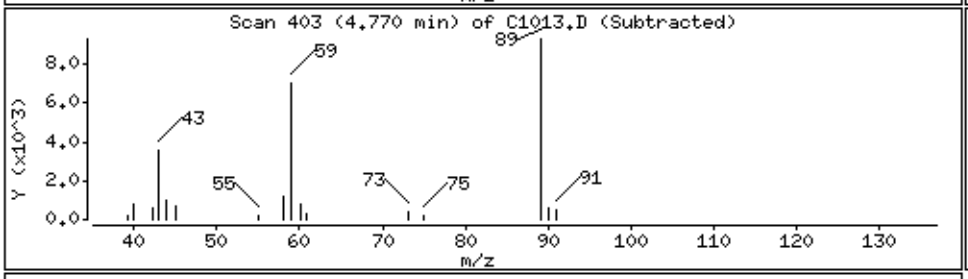
Client ID: IDWGW-3178-011315 Instrument: gcms-c.i

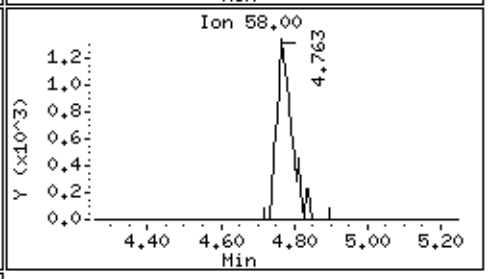
Sample Info: SI0230-2

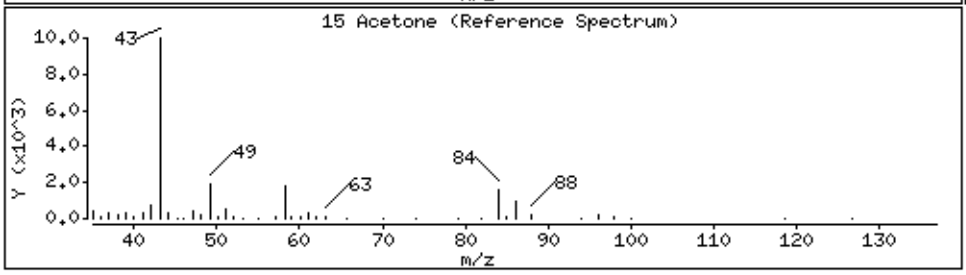
15 Acetone Concentration: 7.4 ug/l



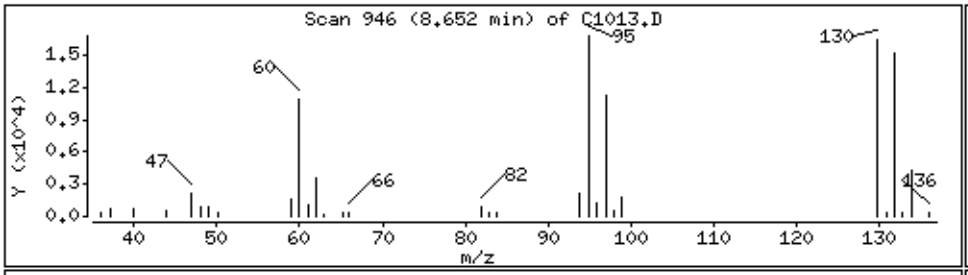


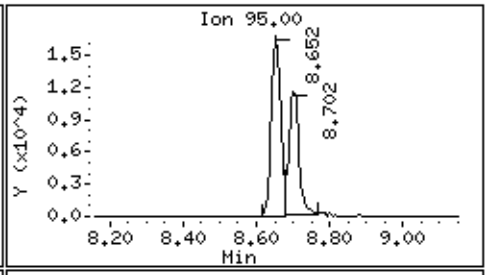


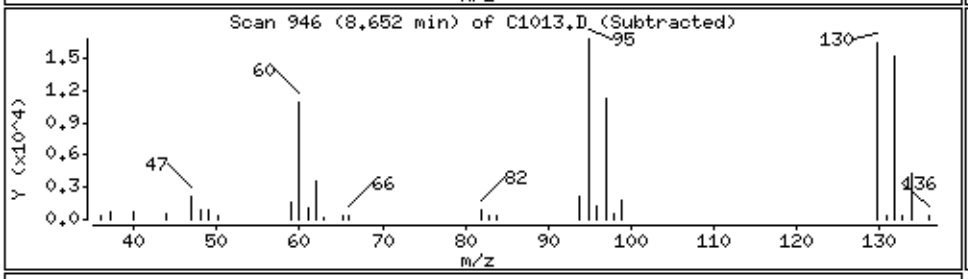


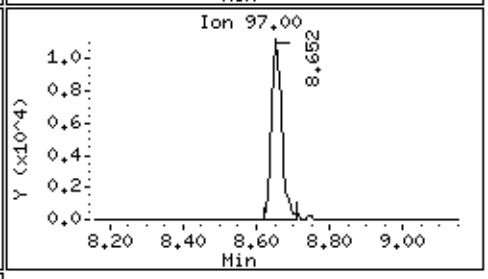


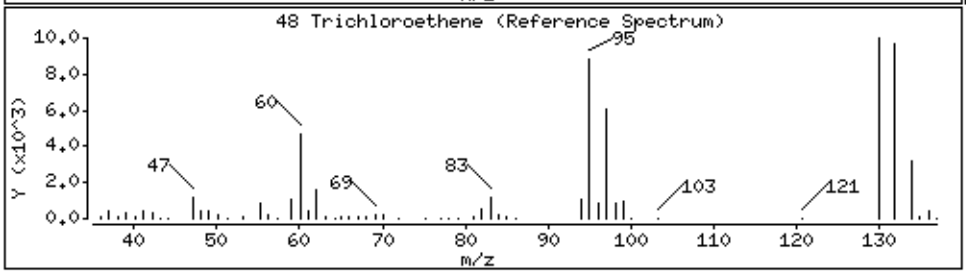
48 Trichloroethene Concentration: 7.8 ug/l







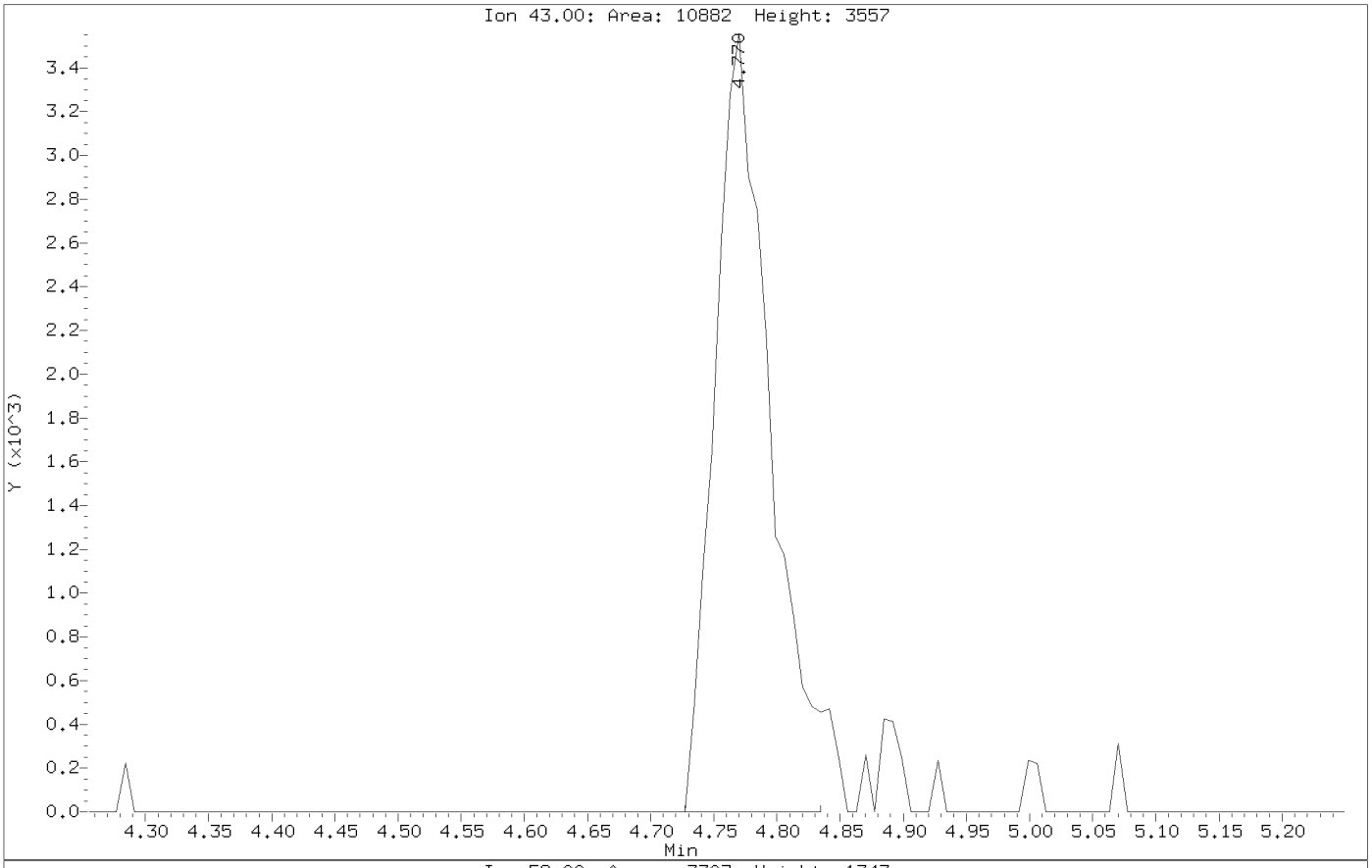


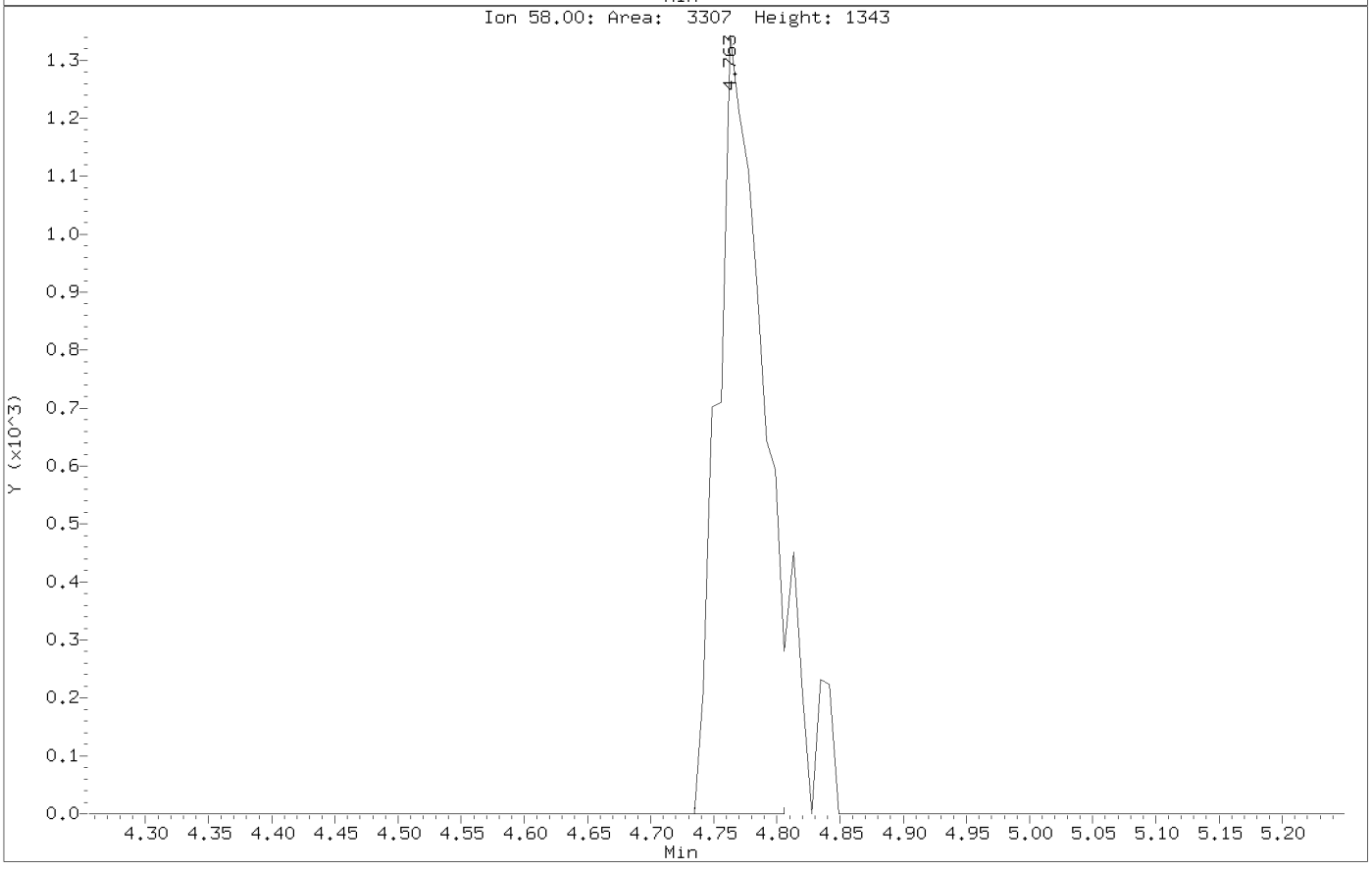


Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1013.D
Injection Date: 16-JAN-2015 07:44
Instrument: gcms-c.i
Client Sample ID: IDWGW-3178-011315

Compound: Acetone
CAS Number: 67-64-1

BEFORE MANUAL INTEGRATION

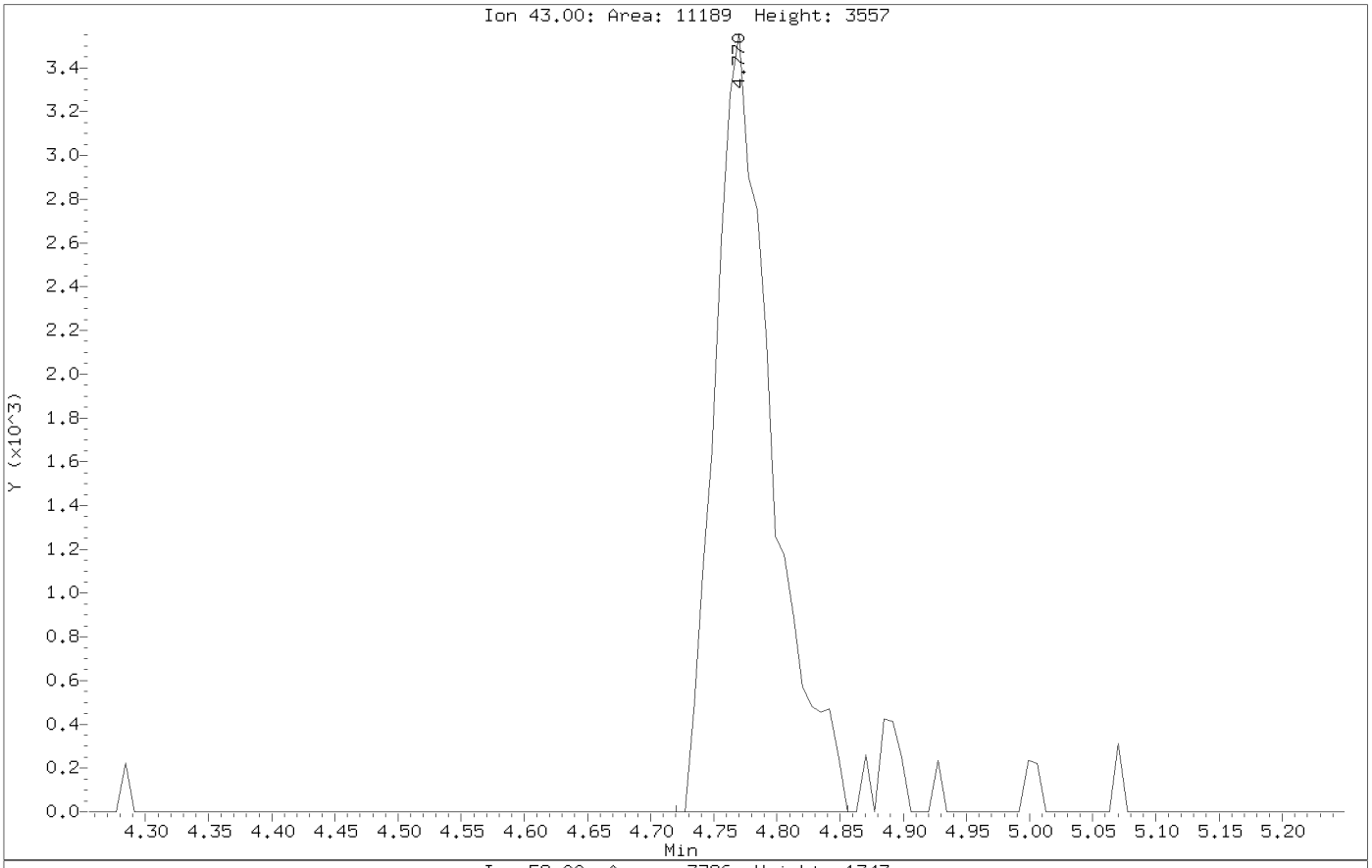


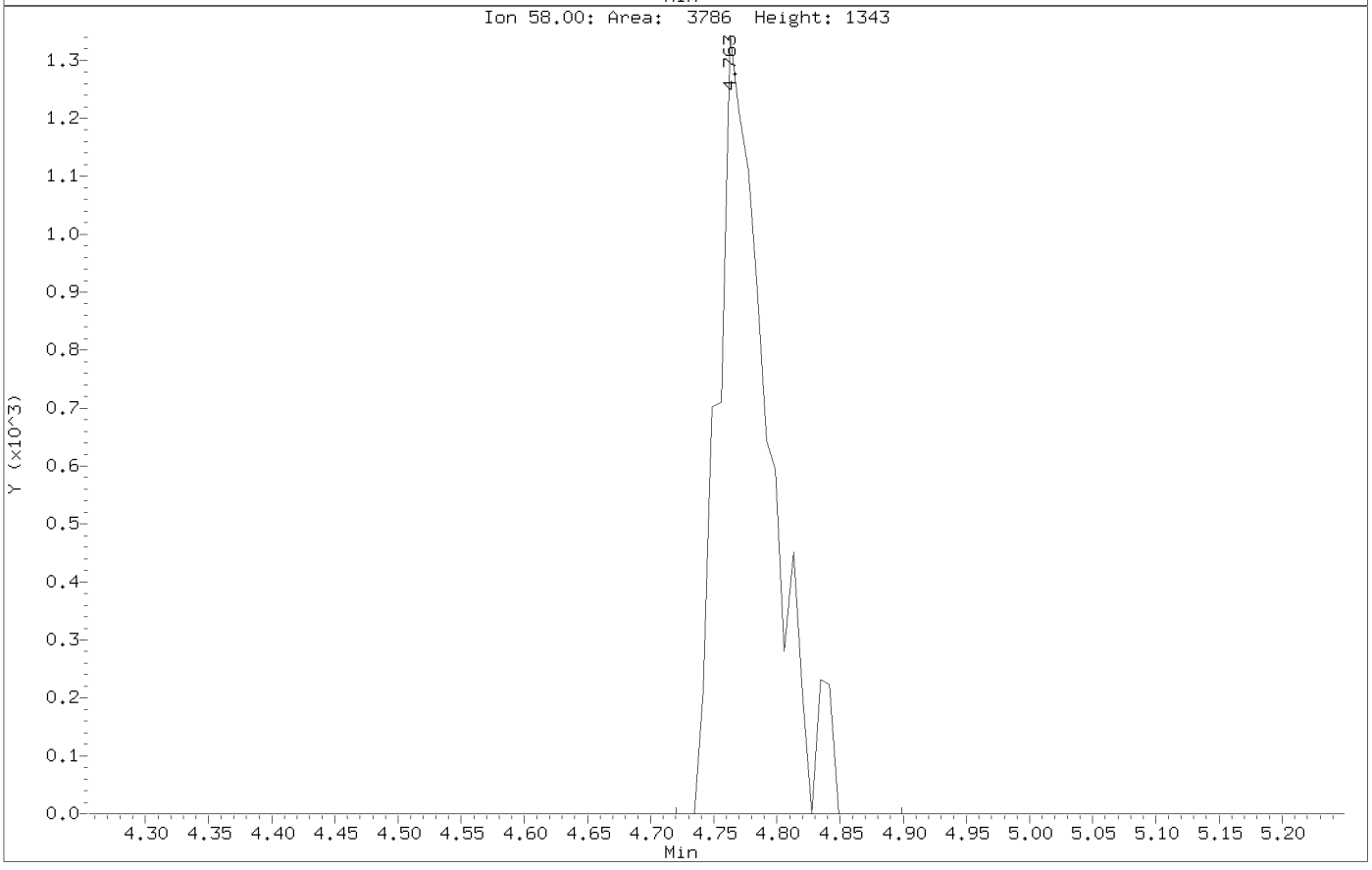


Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1013.D
Injection Date: 16-JAN-2015 07:44
Instrument: gcms-c.i
Client Sample ID: IDWGW-3178-011315

Compound: Acetone
CAS Number: 67-64-1

AFTER MANUAL INTEGRATION





Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-3
Client ID: IDWGW-F0A37-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: C1014.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157009

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	5	5.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	5	5.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	5	5.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	5	5.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	10	10.	1.1	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.25	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	5	5.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	5	5.0	0.22	0.50
Benzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Trichloroethene	J	0.32	ug/L	1	5	5.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	5	5.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.19	0.50
Toluene	U	0.50	ug/L	1	5	5.0	0.27	0.50
trans-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	5	5.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	5	5.0	0.30	0.50
Chlorobenzene	U	0.50	ug/L	1	5	5.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Bromoform	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	5	5.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.15	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Freon-113	U	0.50	ug/L	1	5	5.0	0.31	0.50
Acetone		14	ug/L	1	10	10.	2.2	2.5
Carbon Disulfide	U	0.50	ug/L	1	5	5.0	0.25	0.50

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Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-3
Client ID: IDWGW-F0A37-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: C1014.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157009

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Methyl tert-butyl Ether	U	0.50	ug/L	1	5	5.0	0.36	0.50
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	10	10.	0.21	1.0
2-Butanone	U	2.5	ug/L	1	10	10.	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	5	5.0	0.31	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
1,2-Dibromoethane	U	0.50	ug/L	1	5	5.0	0.22	0.50
Xylenes (Total)	U	1.5	ug/L	1	15	15.	0.25	1.5
M+P-Xylenes	U	1.0	ug/L	1	10	10.	0.59	1.0
o-Xylene	U	0.50	ug/L	1	5	5.0	0.25	0.50
Styrene	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,2-Dibromo-3-Chloropropane	U	0.50	ug/L	1	5	5.0	0.50	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	5	5.0	0.37	0.50
Isopropylbenzene	U	0.50	ug/L	1	5	5.0	0.23	0.50
Methyl Acetate	U	0.75	ug/L	1	5	5.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	5	5.0	0.30	0.50
1,2-Dichloroethane-D4		114.	%					
Toluene-D8		99.8	%					
P-Bromofluorobenzene		92.3	%					
Dibromofluoromethane		98.7	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1014.D
Report Date: 16-Jan-2015 14:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C011515.b\C1014.D
Lab Smp Id: SI0230-3 Client Smp ID: IDWGW-F0A37-011315
Inj Date : 16-JAN-2015 08:43 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SI0230-3
Misc Info : WG157009,WG156347-4
Comment :
Method : \\TARGET_SERVER\GG\chem\gcms-c.i\C011515.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: GCMS-D

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	15 Acetone	43	4.761	4.752	(0.592)	25816	13.7074	13.7(M)	M10
$	37 Dibromofluoromethane	113	7.406	7.404	(0.921)	195910	49.3500	49.4	
*	42 Pentafluorobenzene	168	8.042	8.039	(1.000)	426384	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.092	8.090	(1.006)	285398	56.7887	56.8	
	48 Trichloroethene	95	8.650	8.654	(0.994)	1439	0.31874	0.32(a)	
*	49 1,4-Difluorobenzene	114	8.700	8.705	(1.000)	716147	50.0000		
$	55 Toluene-D8	98	10.322	10.320	(1.187)	688196	49.9099	49.9	
*	66 Chlorobenzene-D5	117	12.188	12.193	(1.000)	700052	50.0000		
$	76 P-Bromofluorobenzene	95	13.839	13.837	(1.591)	285599	46.1306	46.1	
*	91 1,4-Dichlorobenzene-D4	152	15.519	15.517	(1.000)	364750	50.0000		

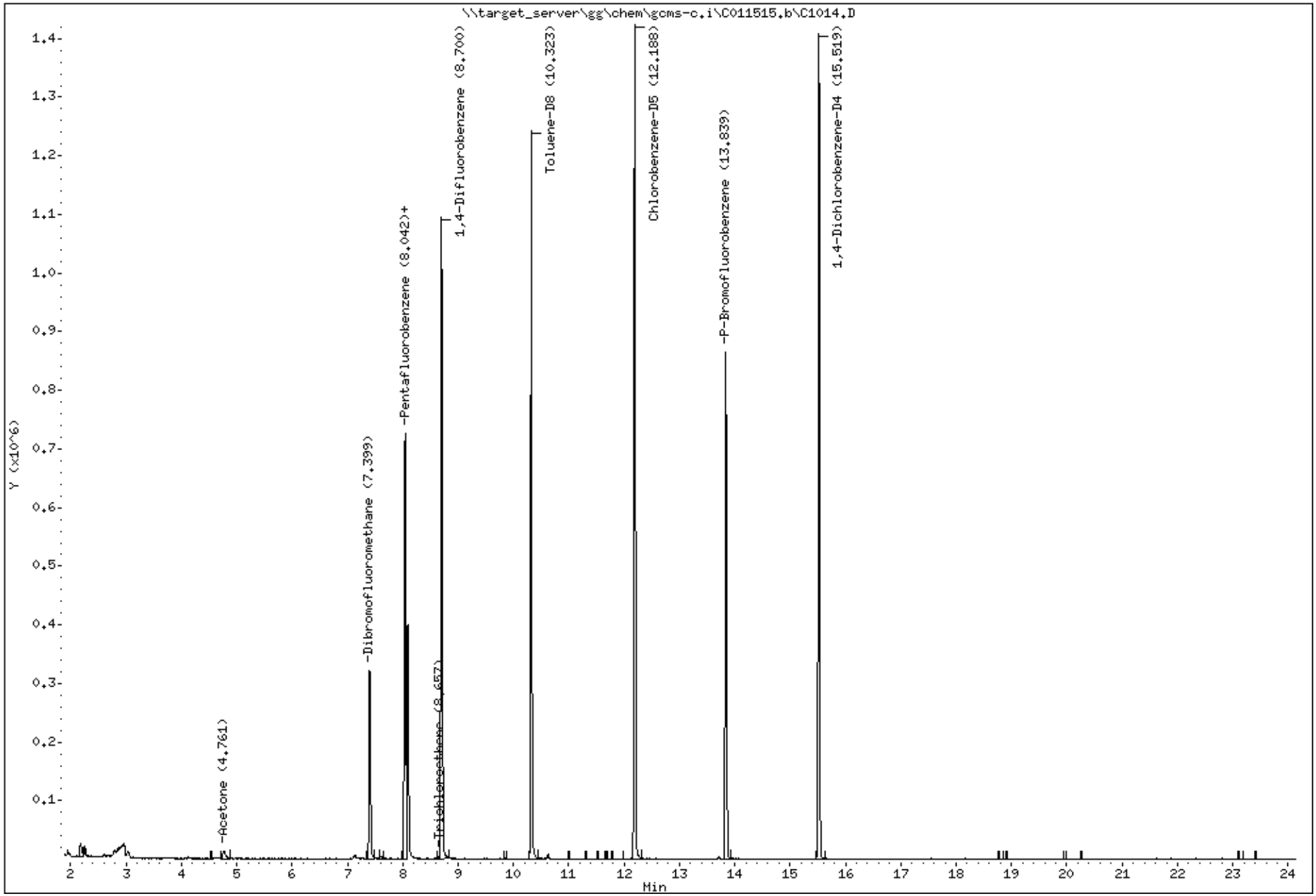
WAS

1:45 pm, Jan 21, 2015

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1014.D
Date : 16-JAN-2015 08:43
Client ID: IDWGW-F0A37-011315 Instrument: gcms-c.i
Sample Info: SI0230-3



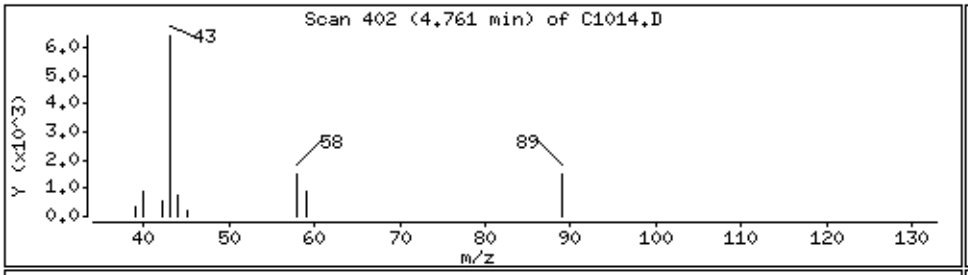
Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1014.D

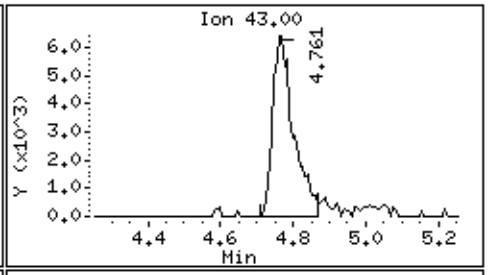
Date : 16-JAN-2015 08:43

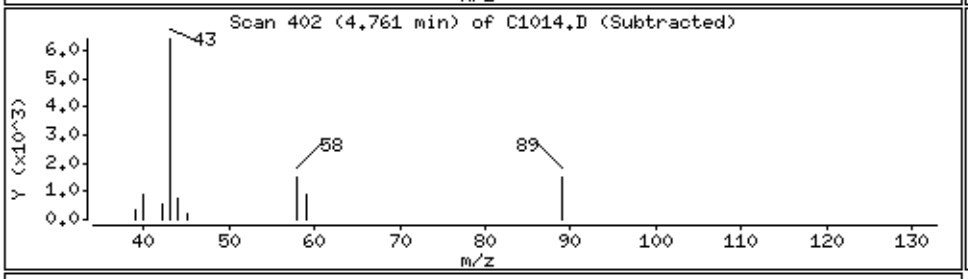
Client ID: IDWGW-F0A37-011315 Instrument: gcms-c.i

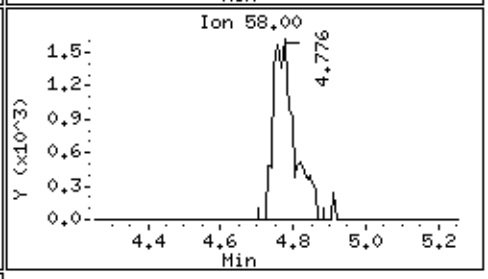
Sample Info: SI0230-3

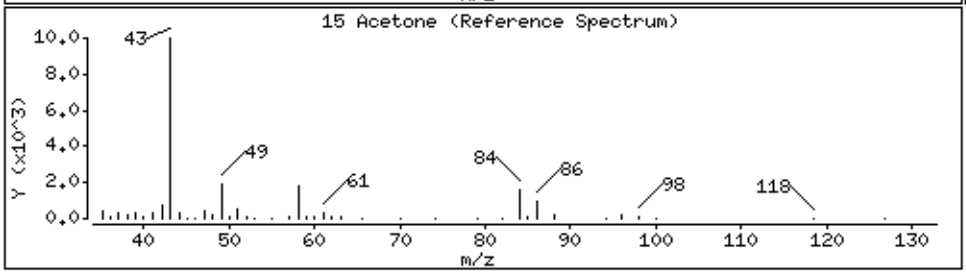
15 Acetone Concentration: 13.7 ug/l



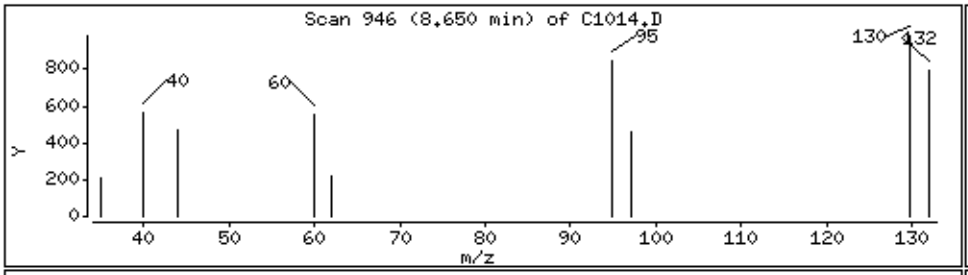


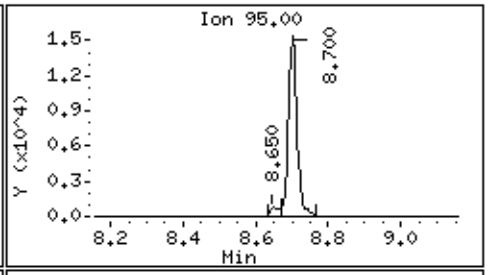


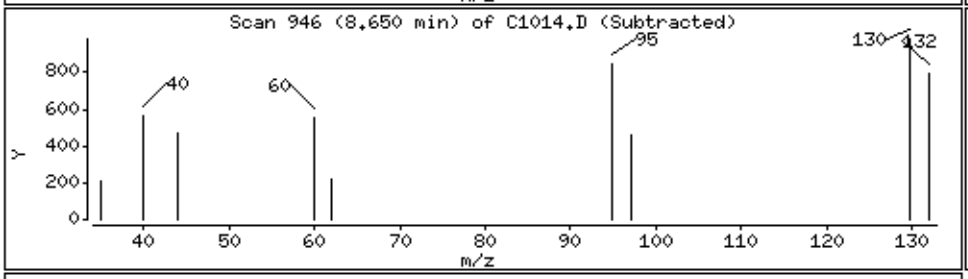


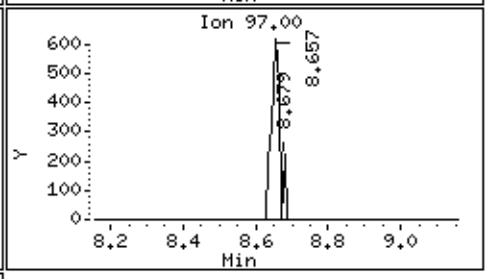


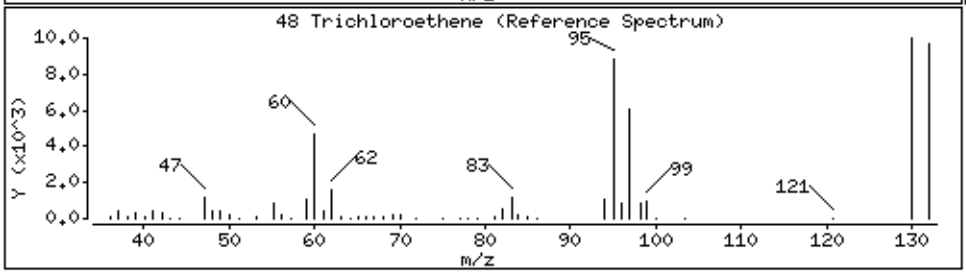
48 Trichloroethene Concentration: 0.32 ug/l







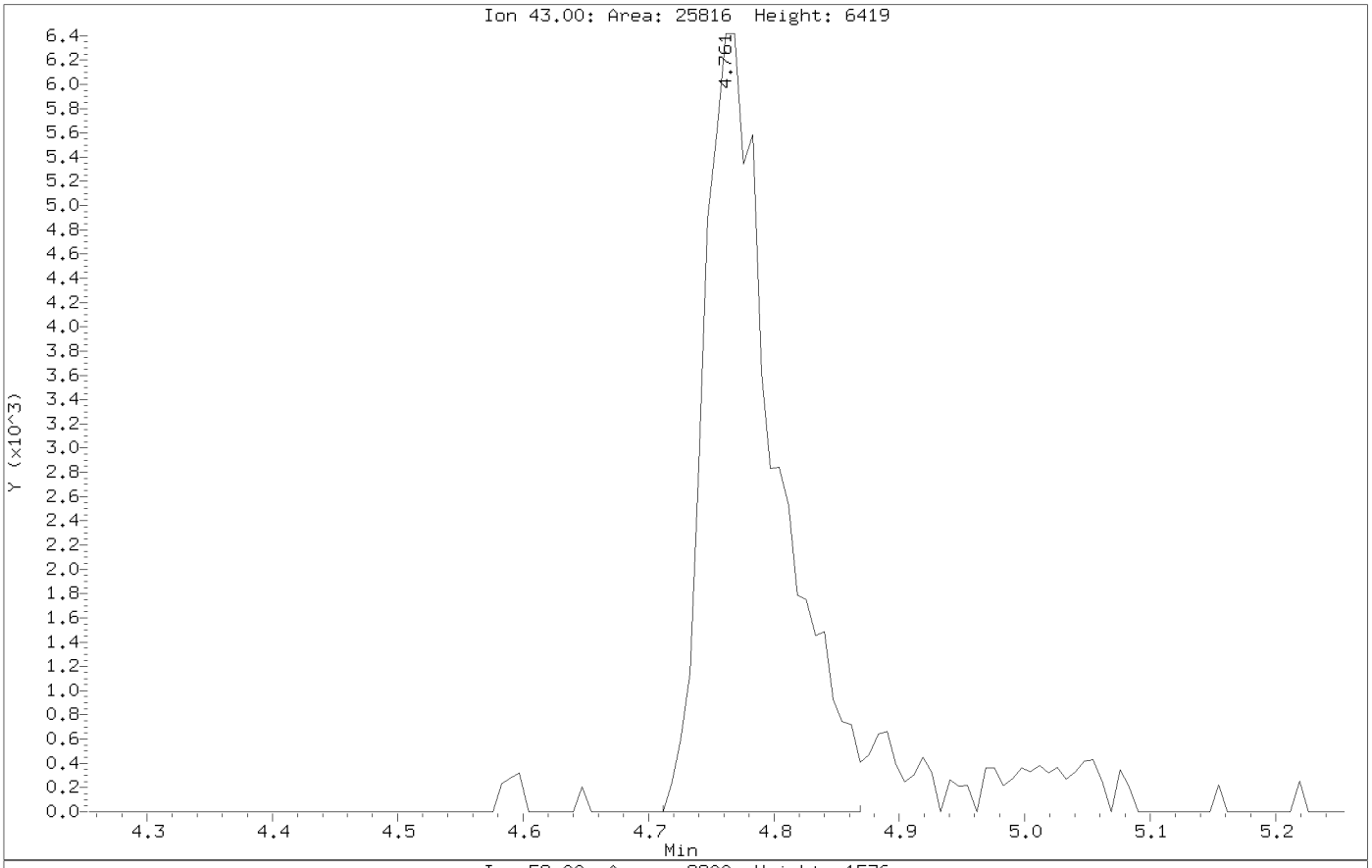


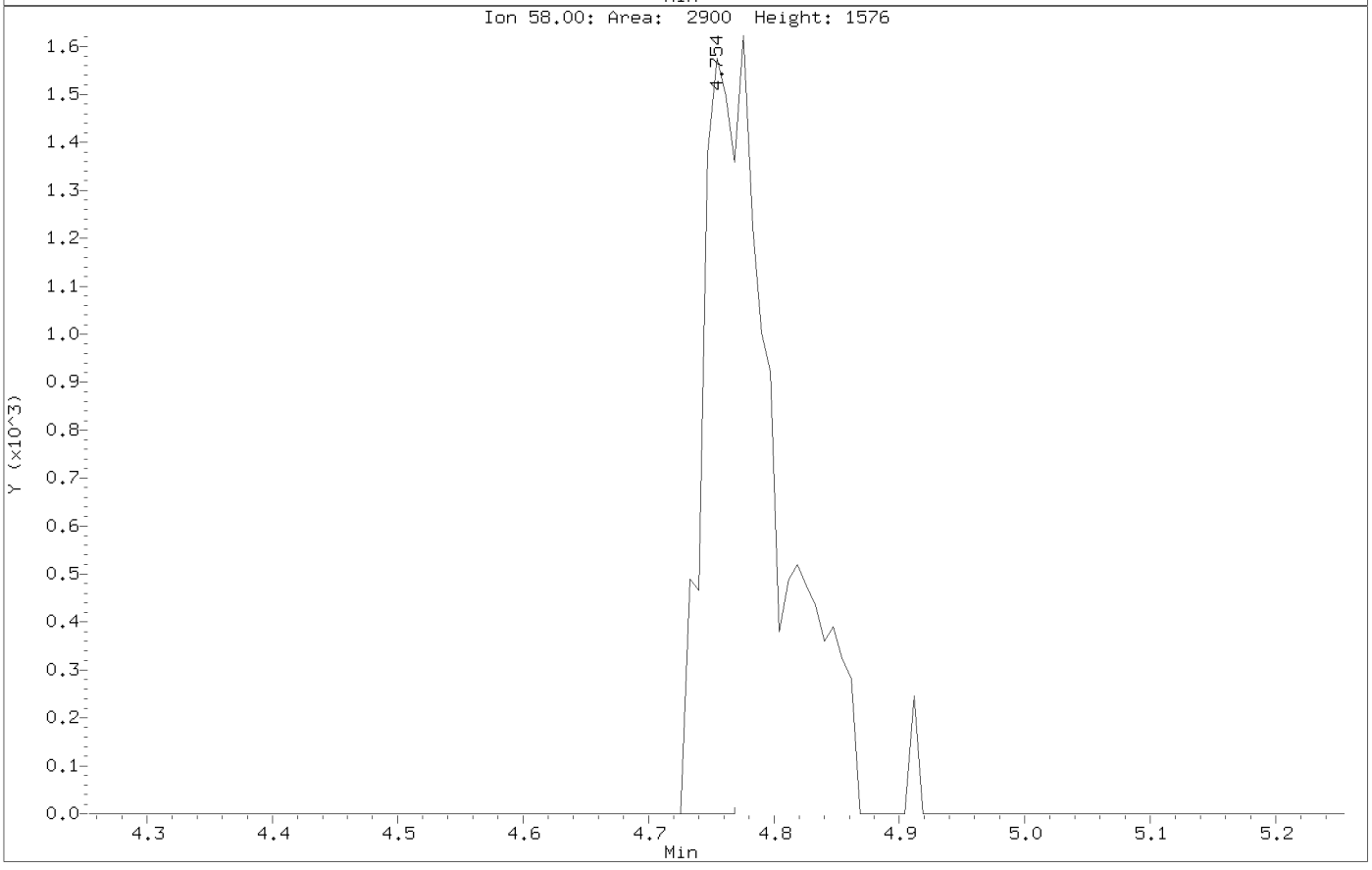


Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1014.D
Injection Date: 16-JAN-2015 08:43
Instrument: gcms-c.i
Client Sample ID: IDWGW-FOA37-011315

Compound: Acetone
CAS Number: 67-64-1

BEFORE MANUAL INTEGRATION

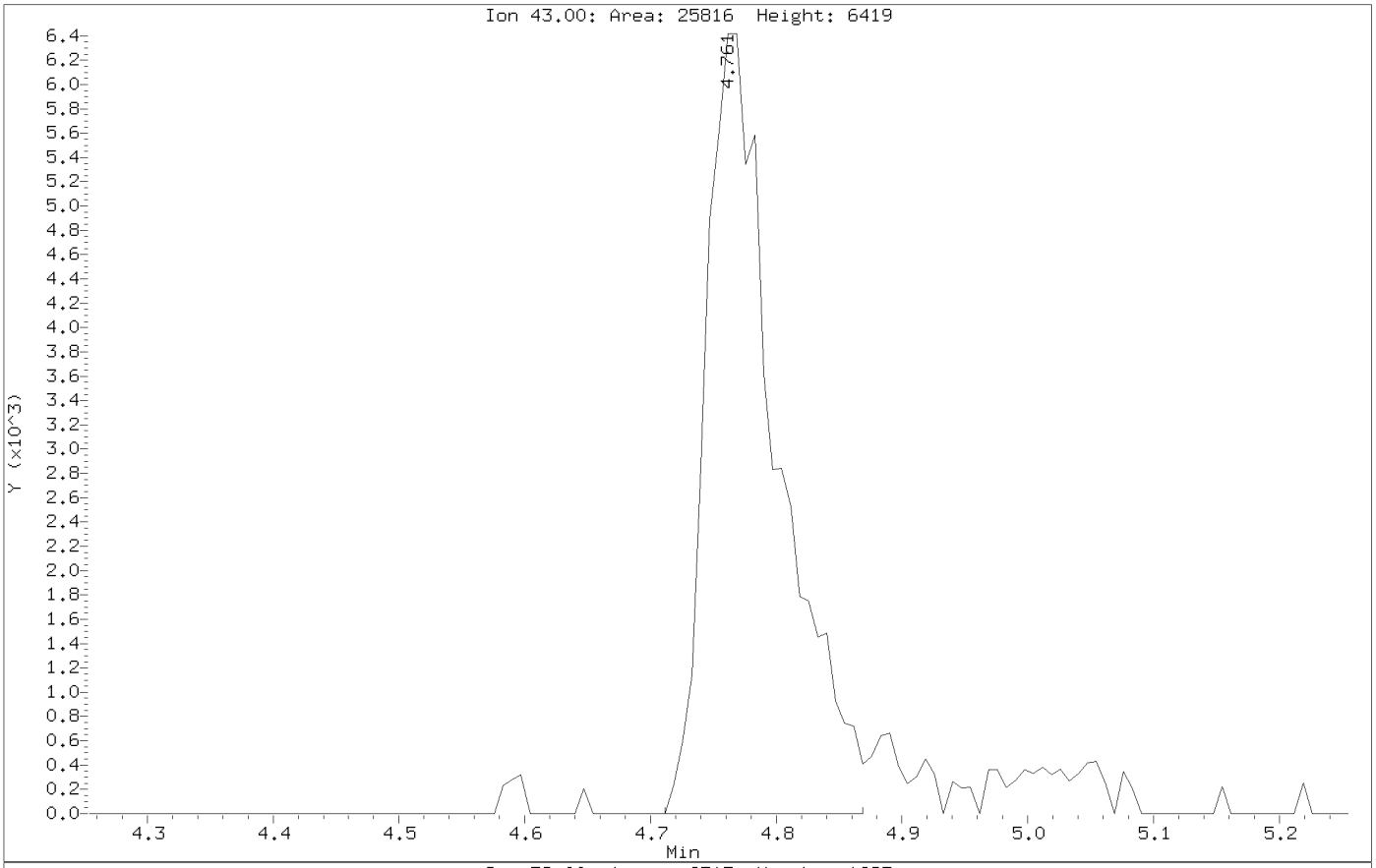


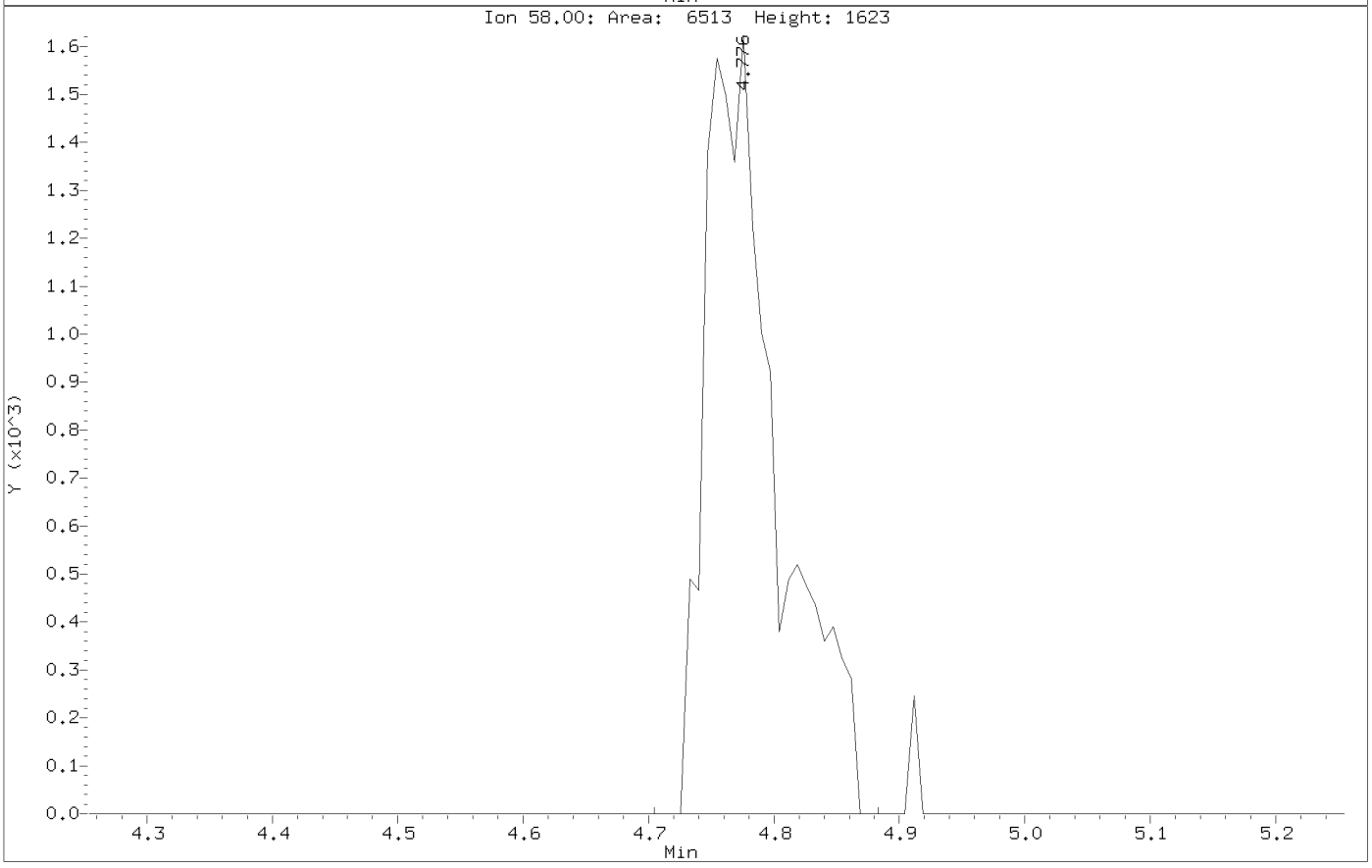


Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1014.D
Injection Date: 16-JAN-2015 08:43
Instrument: gcms-c.i
Client Sample ID: IDWGW-FOA37-011315

Compound: Acetone
CAS Number: 67-64-1

AFTER MANUAL INTEGRATION





Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-4RA
Client ID: IDWGW-EG332-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: C1021.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157065

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	5	5.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	5	5.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	5	5.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	5	5.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	10	10.	1.1	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.25	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	5	5.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	5	5.0	0.22	0.50
Benzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	5	5.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	5	5.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.19	0.50
Toluene	U	0.50	ug/L	1	5	5.0	0.27	0.50
trans-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	5	5.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	5	5.0	0.30	0.50
Chlorobenzene	U	0.50	ug/L	1	5	5.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Bromoform	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	5	5.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.15	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Freon-113	U	0.50	ug/L	1	5	5.0	0.31	0.50
Acetone	J	2.8	ug/L	1	10	10.	2.2	2.5
Carbon Disulfide	U	0.50	ug/L	1	5	5.0	0.25	0.50

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Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-4RA
Client ID: IDWGW-EG332-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: C1021.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157065

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Methyl tert-butyl Ether	U	0.50	ug/L	1	5	5.0	0.36	0.50
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	10	10.	0.21	1.0
2-Butanone	U	2.5	ug/L	1	10	10.	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	5	5.0	0.31	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
1,2-Dibromoethane	U	0.50	ug/L	1	5	5.0	0.22	0.50
Xylenes (Total)	U	1.5	ug/L	1	15	15.	0.25	1.5
M+P-Xylenes	U	1.0	ug/L	1	10	10.	0.59	1.0
o-Xylene	U	0.50	ug/L	1	5	5.0	0.25	0.50
Styrene	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,2-Dibromo-3-Chloropropane	U	0.50	ug/L	1	5	5.0	0.50	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	5	5.0	0.37	0.50
Isopropylbenzene	U	0.50	ug/L	1	5	5.0	0.23	0.50
Methyl Acetate	U	0.75	ug/L	1	5	5.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	5	5.0	0.30	0.50
1,2-Dichloroethane-D4		131.	%					
Toluene-D8		101.	%					
P-Bromofluorobenzene		99.8	%					
Dibromofluoromethane		112.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1021.D
Report Date: 16-Jan-2015 14:19

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C011615.b\C1021.D
Lab Smp Id: SI0230-4RA Client Smp ID: IDWGW-EG332-011315
Inj Date : 16-JAN-2015 13:28 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SI0230-4RA
Misc Info : WG157065,WG156347-4
Comment   :
Method   : \\target_server\gg\chem\gcms-c.i\C011615.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

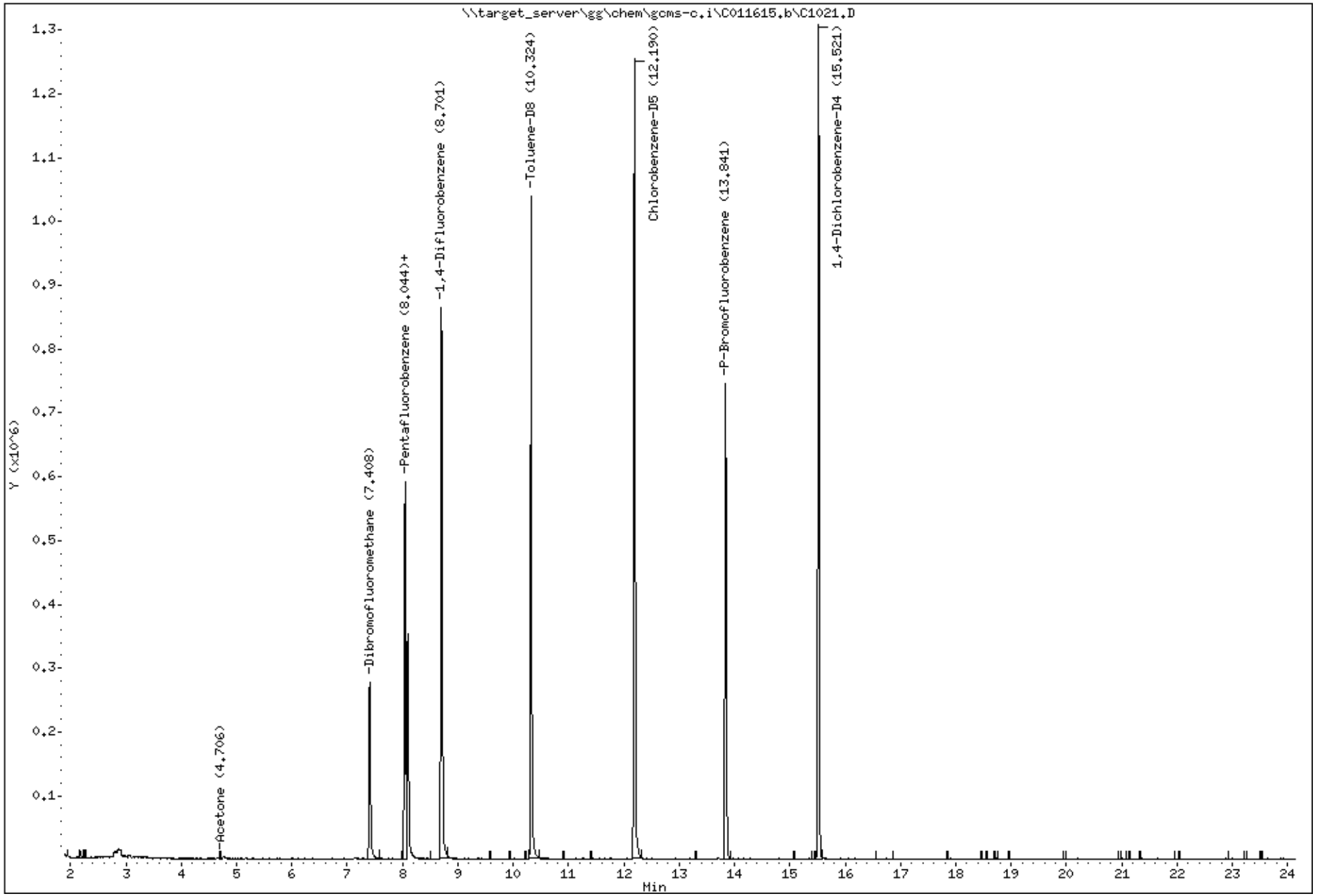
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.777	4.752	(0.594)	4073	2.77211	2.8(aM)	M9
$ 37 Dibromofluoromethane	113	7.407	7.404	(0.921)	173297	55.9566	56.0	
* 42 Pentafluorobenzene	168	8.043	8.039	(1.000)	332638	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.093	8.090	(1.006)	257254	65.6148	65.6	
* 49 1,4-Difluorobenzene	114	8.701	8.705	(1.000)	597642	50.0000		
$ 55 Toluene-D8	98	10.324	10.320	(1.186)	579629	50.3716	50.4	
* 66 Chlorobenzene-D5	117	12.189	12.193	(1.000)	623155	50.0000		
$ 76 P-Bromofluorobenzene	95	13.840	13.837	(1.591)	257755	49.8885	49.9	
* 91 1,4-Dichlorobenzene-D4	152	15.520	15.517	(1.000)	333150	50.0000		

1:45 pm, Jan 21, 2015

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1021.D
Date : 16-JAN-2015 13:28
Client ID: IDWGW-EG332-011315 Instrument: gcms-c.i
Sample Info: SI0230-4RA



Katahdin Analytical Services 0000061

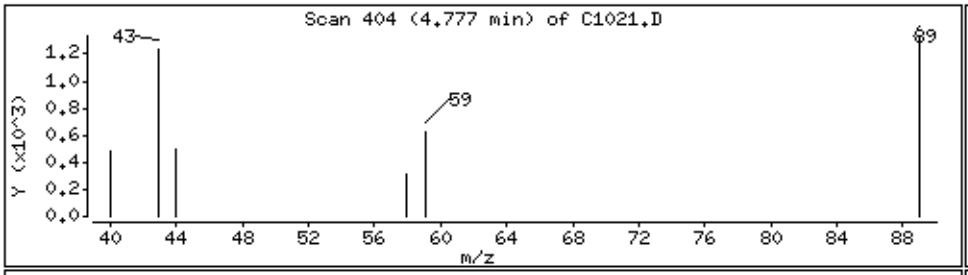
Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1021.D

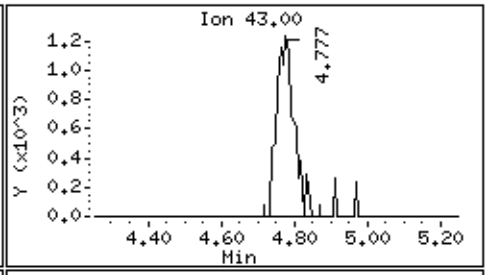
Date : 16-JAN-2015 13:28

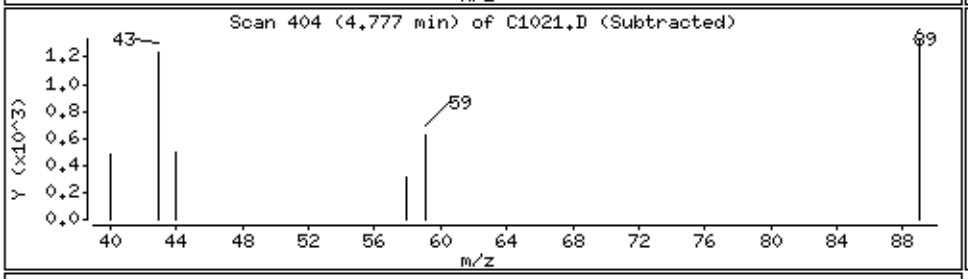
Client ID: IDWGW-EG332-011315 Instrument: gcms-c.i

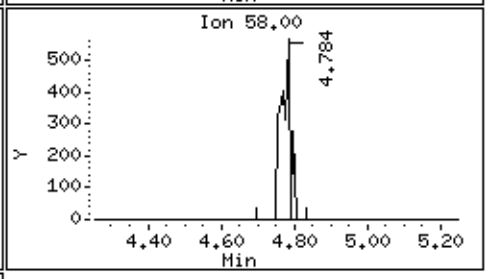
Sample Info: SI0230-4RA

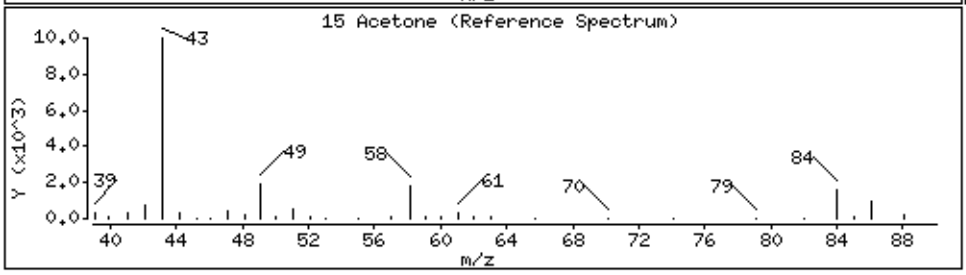
15 Acetone Concentration: 2.8 ug/l











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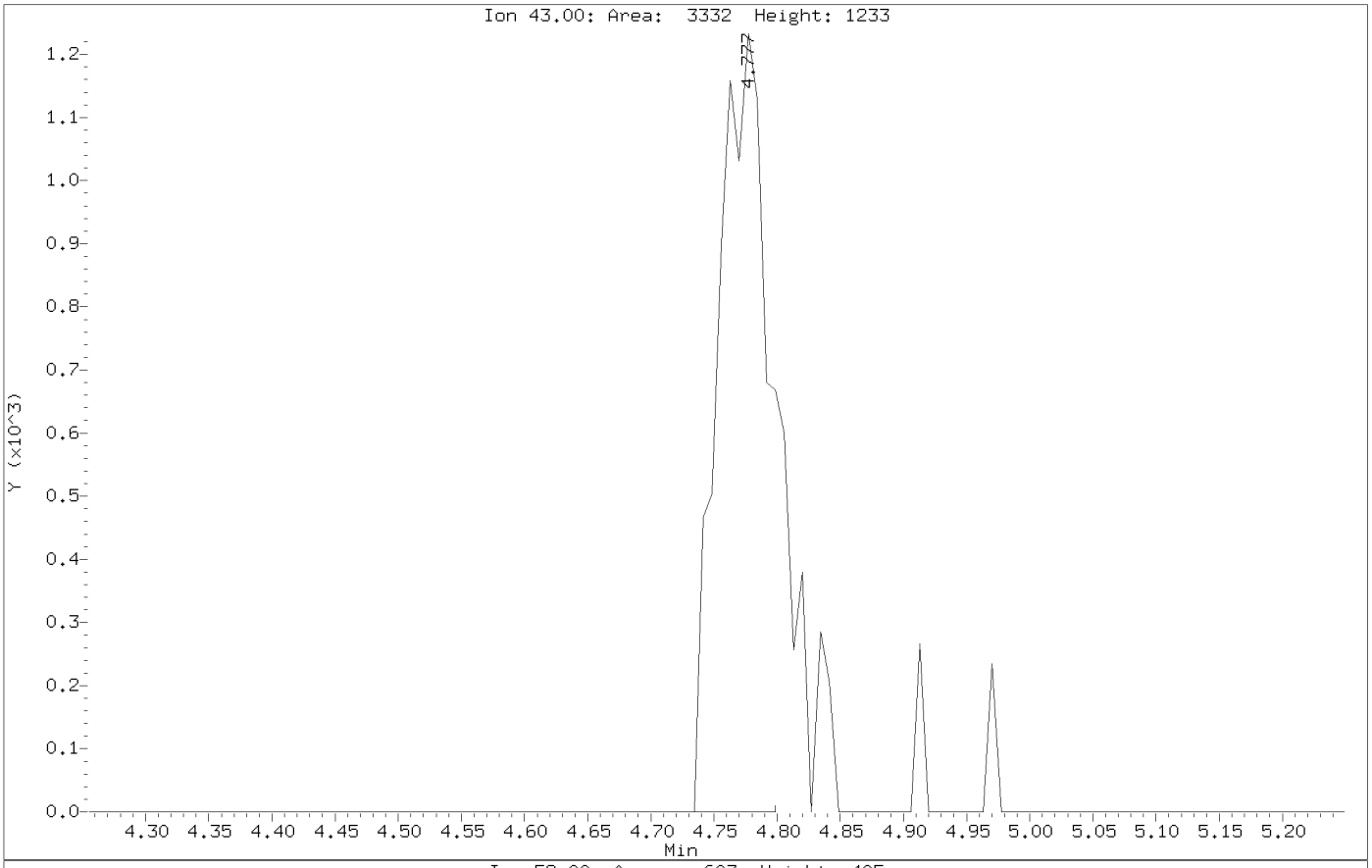
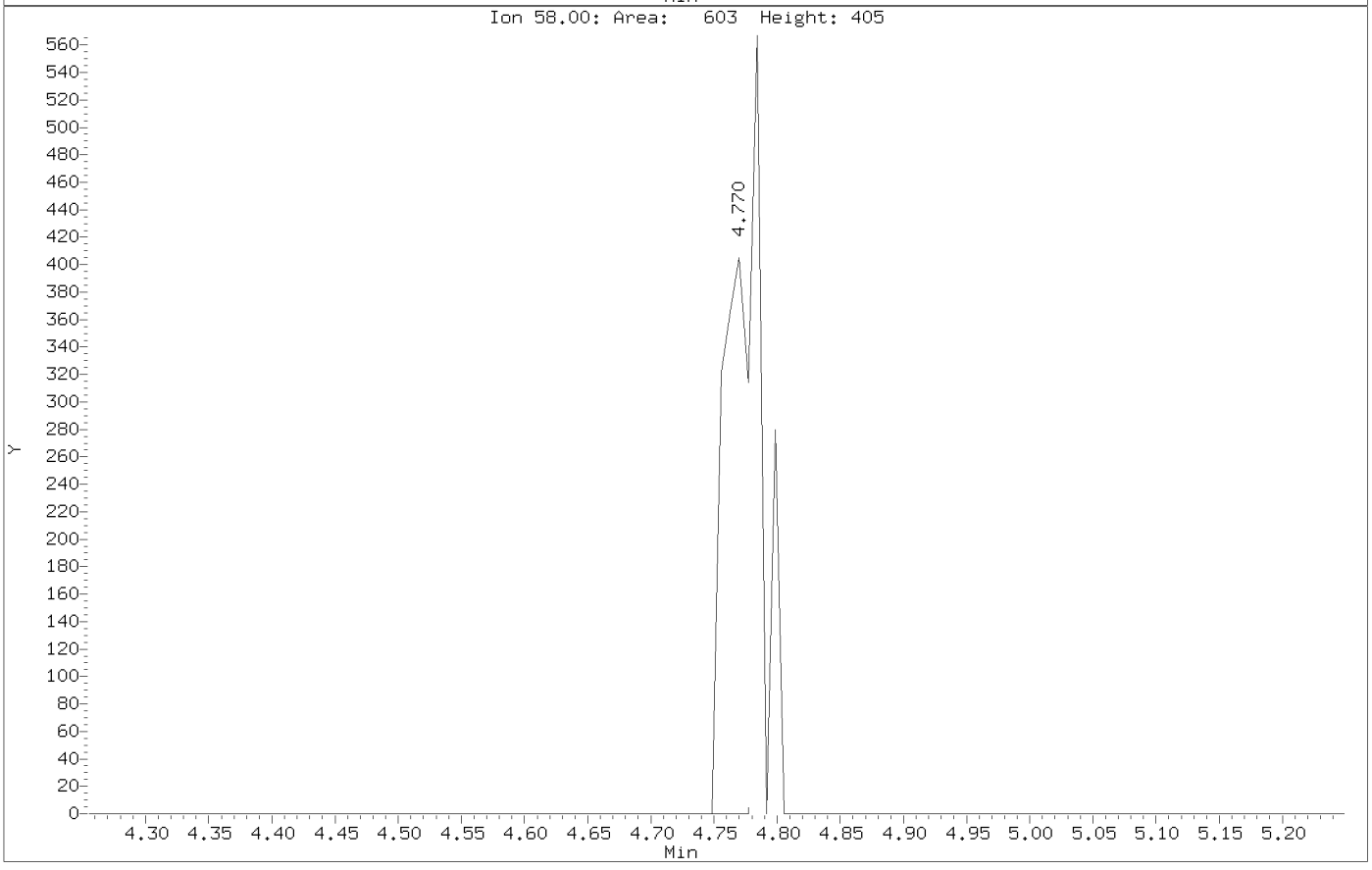
Injection Date: 16-JAN-2015 13:28
Instrument: gcms-c.i
Client Sample ID: IDWGW-EG332-011315

Compound: Acetone
CAS Number: 67-64-1

BEFORE MANUAL INTEGRATION





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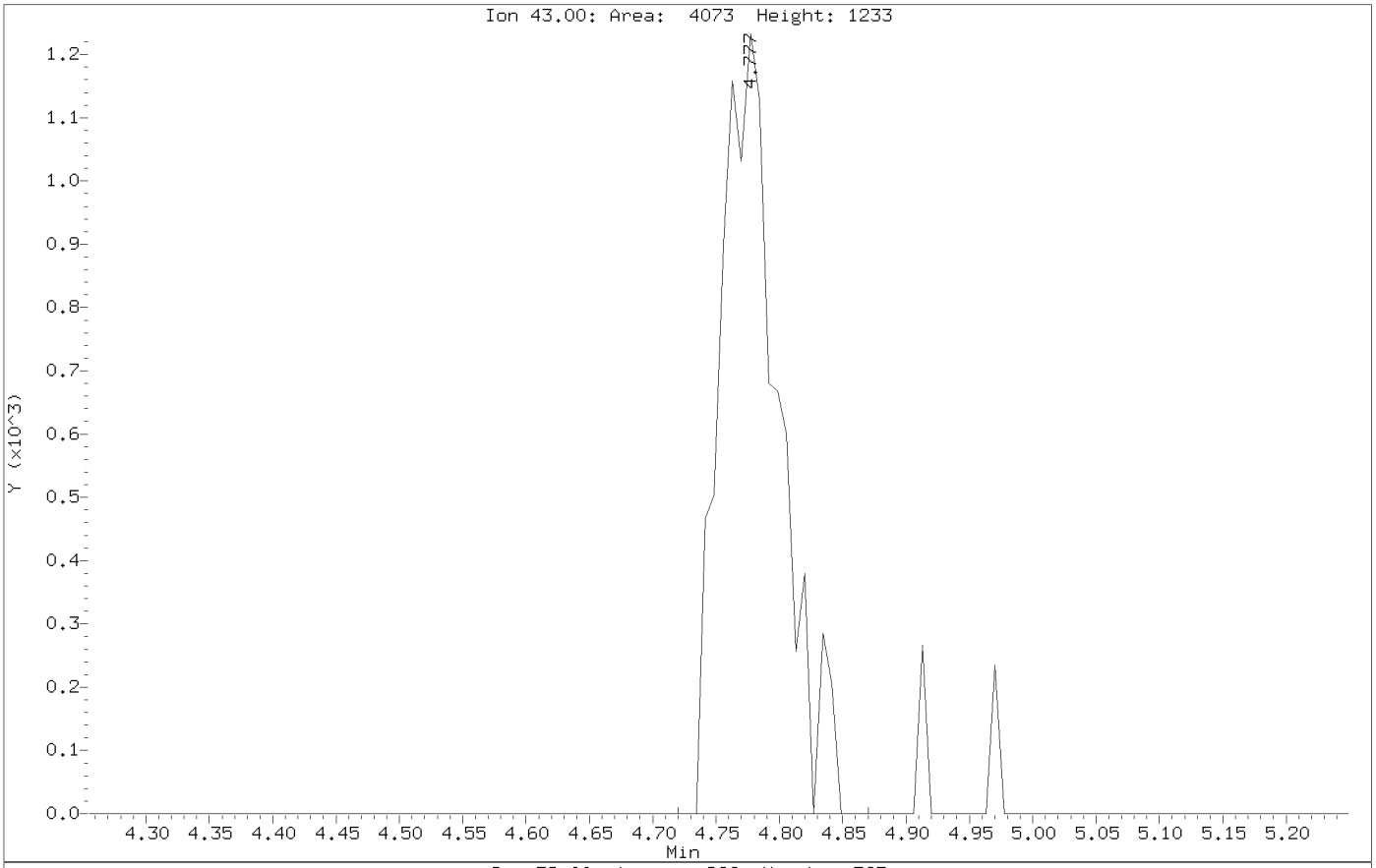
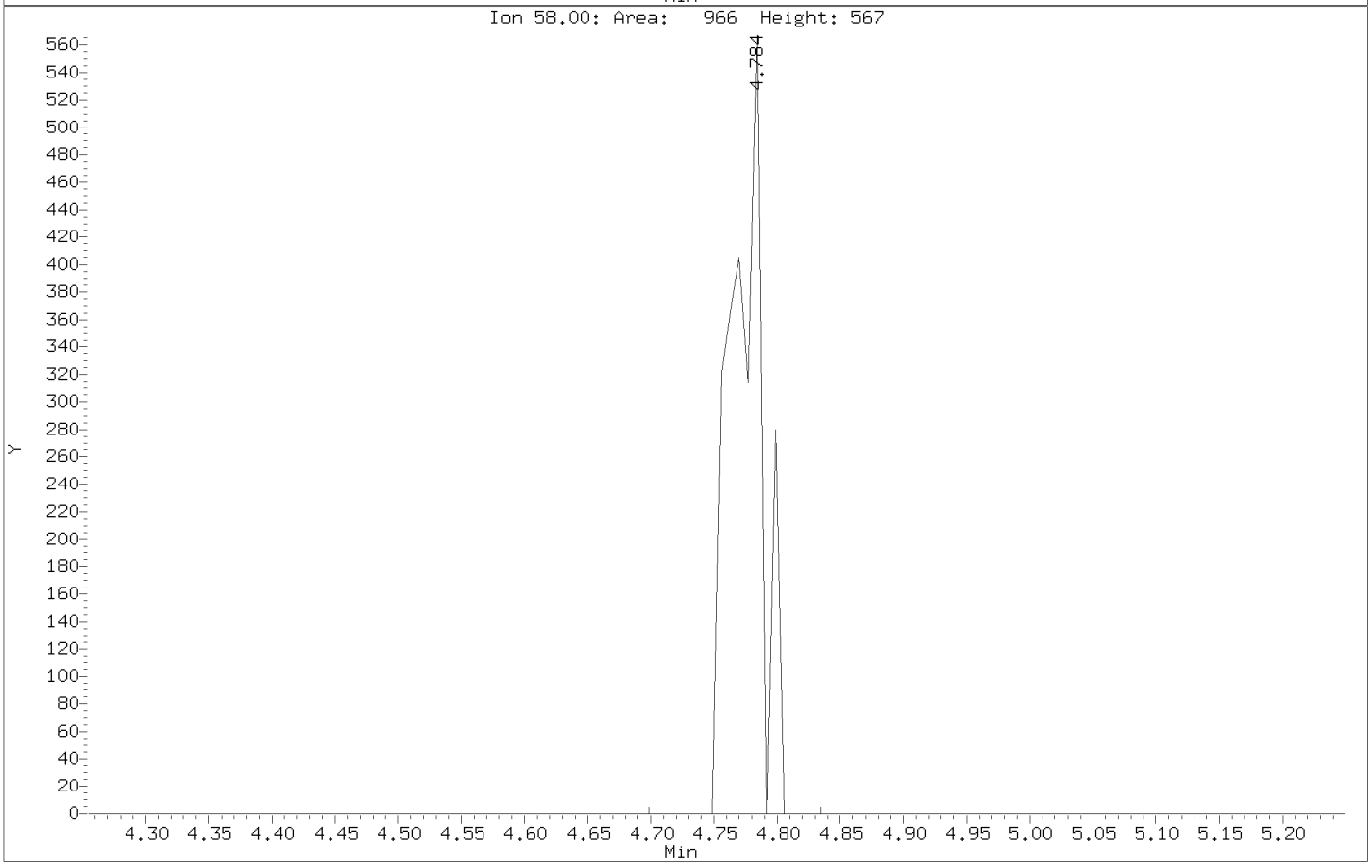
Injection Date: 16-JAN-2015 13:28
Instrument: gcms-c.i
Client Sample ID: IDWGW-EG332-011315

Compound: Acetone
CAS Number: 67-64-1

AFTER MANUAL INTEGRATION





Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-C
Lab File IDs : C0795A.D C0794A.D C0793A.D **Column ID:**
C0792A.D C0797A.D C0796A.D **Calibration Date(s):** 29-DEC-14 15:30
29-DEC-14 18:10

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	1.0000	5.0000	20.0000	50.0000	100.0000	200.0000	New	b	m1	m2	%RSD	%RSD	
Dichlorodifluoromethane	0.76118	0.76060	0.72517	0.64669	0.63614	0.61995	AVG		0.69162		9.36052	35.00000	O
Chloromethane	1.28177	1.12575	0.93927	0.75729	0.80857	0.78618	AVG		0.94980		22.3367(	35.00000	O
Vinyl chloride	0.74404	0.76780	0.72718	0.61403	0.61111	0.59918	AVG		0.67722		11.3650(	35.00000	O
Bromomethane	0.33174	0.27937	0.29998	0.31751	0.36967	0.36163	AVG		0.32665		10.7195:	35.00000	O
Chloroethane	0.36741	0.37345	0.29461	0.24003	0.21887	0.22390	AVG		0.28638		24.6048:	35.00000	O
Trichlorofluoromethane	1.12623	1.01669	0.95983	0.87863	0.88273	0.88182	AVG		0.95766		10.3917:	35.00000	O
1,1-Dichloroethene	0.46950	0.47380	0.46643	0.37584	0.45879	0.47662	AVG		0.45349		8.49909	35.00000	O
Carbon Disulfide	1.45808	1.33667	1.41714	1.23675	1.37940	1.32442	AVG		1.35875		5.72482	35.00000	O
Freon-113	0.33078	0.33091	0.31426	0.27965	0.29559	0.30090	AVG		0.30868		6.62077	35.00000	O
Methylene Chloride	0.76118	0.64183	0.60397	0.51131	0.54746	0.54666	AVG		0.60207		15.0749:	35.00000	O
Acetone	0.20444	0.22886	0.24232	0.22567	0.21352	0.21030	AVG		0.22085		6.34747	35.00000	O
trans-1,2-Dichloroethene	0.51545	0.52638	0.52724	0.42789	0.49132	0.49261	AVG		0.49681		7.50208	35.00000	O
Methyl tert-butyl ether	1.06025	1.14799	1.22696	1.12396	1.22475	1.13630	AVG		1.15337		5.53359	35.00000	O
1,1-Dichloroethane	0.98173	1.02757	0.98949	0.85637	0.92157	0.90304	AVG		0.94663		6.73003	35.00000	O
cis-1,2-Dichloroethene	0.57233	0.56102	0.54738	0.47364	0.55203	0.54560	AVG		0.54200		6.44303	35.00000	O
1,2-Dichloroethylene (total	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	35.00000	M (
Chloroform	1.11263	1.04487	0.98238	0.85931	0.91449	0.89199	AVG		0.96761		10.07171	35.00000	O
Carbon Tetrachloride	0.36563	0.40736	0.42301	0.37219	0.43818	0.42213	AVG		0.40475		7.28773	35.00000	O
1,1,1-Trichloroethane	0.81409	0.90125	0.87370	0.76296	0.84920	0.82998	AVG		0.83853		5.76029	35.00000	O
2-Butanone	0.20911	0.29201	0.32860	0.30366	0.29618	0.27573	AVG		0.28422		14.3046:	35.00000	O
Benzene	1.23212	1.28110	1.29305	1.07728	1.20810	1.08257	AVG		1.19570		7.94041	35.00000	O
Cyclohexane	0.75089	0.88993	0.89407	0.78975	0.83880	0.82223	AVG		0.83095		6.74503	35.00000	O
1,2-Dichloroethane	0.50368	0.46218	0.44831	0.40002	0.42333	0.41817	AVG		0.44261		8.41002	35.00000	O
Trichloroethene	0.31518	0.34028	0.33062	0.27325	0.32135	0.31051	AVG		0.31520		7.35405	35.00000	O
1,2-Dichloropropane	0.27713	0.32400	0.31093	0.28334	0.31262	0.30399	AVG		0.30200		6.01080	35.00000	O
Bromodichloromethane	0.38759	0.39509	0.43224	0.39981	0.45060	0.44471	AVG		0.41834		6.55379	35.00000	O
cis-1,3-dichloropropene	0.42003	0.46432	0.52121	0.48398	0.53893	0.52122	AVG		0.49162		9.06004	35.00000	O
Toluene	0.72461	0.75636	0.80384	0.69006	0.78744	0.73043	AVG		0.74879		5.65124	35.00000	O
4-methyl-2-pentanone	0.23691	0.33549	0.37000	0.32571	0.31507	0.25809	AVG		0.30688		16.2937:	35.00000	O
Tetrachloroethene	0.21082	0.26786	0.26771	0.23822	0.29285	0.29146	AVG		0.26149		12.1769:	35.00000	O
trans-1,3-Dichloropropene	0.32872	0.38922	0.44303	0.41397	0.47072	0.46027	AVG		0.41765		12.6727:	35.00000	O
1,1,2-Trichloroethane	0.24501	0.23995	0.24772	0.22337	0.25015	0.24193	AVG		0.24135		3.96061	35.00000	O
Dibromochloromethane	0.26595	0.27936	0.30634	0.29677	0.34807	0.33409	AVG		0.30510		10.3167:	35.00000	O
1,2-Dibromoethane	0.32987	0.29550	0.30269	0.27813	0.32245	0.31948	AVG		0.30802		6.32149	35.00000	O
2-Hexanone	0.16244	0.23092	0.27356	0.25111	0.24011	0.19806	AVG		0.22603		17.6254:	35.00000	O
Chlorobenzene	1.00150	0.97135	0.92782	0.80998	0.87892	0.77033	AVG		0.89332		10.1690(	35.00000	O
Ethylbenzene	0.43514	0.48703	0.48568	0.42292	0.48807	0.44894	AVG		0.46130		6.34468	35.00000	O

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI0230

Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-C

Lab File IDs : C0795A.D C0794A.D C0793A.D **Column ID:**
C0792A.D C0797A.D C0796A.D **Calibration Date(s):** 29-DEC-14 15:30
29-DEC-14 18:10

Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	35.00000	M (
m+p-Xylenes	0.48308	0.61361	0.62385	0.54074	0.59843	0.51740	AVG		0.56285		10.20077	35.00000	O
o-Xylene	0.43979	0.55140	0.62060	0.54139	0.62157	0.56173	AVG		0.55608		11.99492	35.00000	O
Styrene	0.60817	0.89319	0.95194	0.86661	0.95751	0.83250	AVG		0.85165		15.11579	35.00000	O
Bromoform	0.13850	0.16488	0.19501	0.19948	0.24614	0.24038	AVG		0.19740		21.20441	35.00000	O
Isopropylbenzene	2.37229	2.84068	2.99780	2.53794	2.68730	2.30252	AVG		2.62309		10.29735	35.00000	O
1,1,2,2-Tetrachloroethane	0.88700	0.84886	0.83362	0.73105	0.79665	0.74667	AVG		0.80731		7.50960	35.00000	O
1,3-Dichlorobenzene	1.39918	1.44682	1.42888	1.25434	1.37621	1.29670	AVG		1.36702		5.56662	35.00000	O
1,4-Dichlorobenzene	1.61402	1.42301	1.36900	1.20800	1.34925	1.25828	AVG		1.37026		10.39847	35.00000	O
1,2-Dichlorobenzene	1.12304	1.27585	1.28696	1.15197	1.28114	1.21315	AVG		1.22201		5.83167	35.00000	O
1,2-Dibromo-3-Chloropropane	0.14981	0.11509	0.14495	0.13272	0.15758	0.15614	AVG		0.14271		11.38329	35.00000	O
1,2,4-Trichlorobenzene	0.57469	0.64168	0.70199	0.62700	0.76670	0.74829	AVG		0.67672		11.05140	35.00000	O
Methyl Acetate	0.55937	0.42687	0.48170	0.44758	0.48595	0.49799	AVG		0.48324		9.47023	35.00000	O
Methylcyclohexane	0.66798	0.78009	0.82013	0.77519	0.81981	0.84983	AVG		0.78551		8.14374	35.00000	O
Dibromofluoromethane	0.42633	0.47485	0.50305	0.45795	0.44794	0.48300	AVG		0.46552		5.84663	35.00000	
1,2-Dichloroethane-D4	0.63553	0.65686	0.62247	0.54848	0.52202	0.55061	AVG		0.58933		9.44504	35.00000	
Toluene-D8	0.83706	1.01763	1.09417	0.95660	0.96299	0.90778	AVG		0.96271		9.19046	35.00000	
P-Bromofluorobenzene	0.38983	0.43408	0.46502	0.42052	0.43642	0.44763	AVG		0.43225		5.91504	35.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0800.D
Report Date: 21-Jan-2015 13:22

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa02236
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG157320-7
Level: LOW Operator: REC
Data Type: MS DATA SampleType: LCS
SpikeList File: E624_IND.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C624a27.m
Misc Info: WG157320,WG157320-3,SI230-2

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1	Dichlorodifluorome	20.0	21.1	105.38	80-120
	2	Chloromethane	20.0	19.6	97.93	80-120
	3	Vinyl chloride	20.0	19.9	99.51	80-120
	4	Bromomethane	20.0	20.2	100.77	80-120
	5	Chloroethane	20.0	17.4	86.88	80-120
	6	Trichlorofluoromet	20.0	18.9	94.48	80-120
	7	Diethyl Ether	20.0	19.8	98.97	80-120
	8	Tertiary-butyl alc	40.0	118	294.05*	80-120
	9	1,1-Dichloroethene	20.0	17.5	87.65	80-120
	10	Carbon Disulfide	20.0	22.8	113.89	80-120
	11	Freon-113	20.0	20.4	101.92	80-120
	12	Iodomethane	20.0	21.3	106.55	80-120
	13	Acrolein	40.0	108	271.41*	80-120
	14	Methylene Chloride	20.0	18.3	91.71	80-120
	15	Acetone	20.0	21.0	105.15	80-120
	16	Isobutyl Alcohol	400	474	118.57	80-120
	17	trans-1,2-Dichloro	20.0	18.2	91.26	80-120
	18	Allyl Chloride	20.0	20.8	103.98	80-120
	19	Methyl tert-butyl	40.0	43.6	109.08	80-120
	20	Acetonitrile	200	199	99.58	80-120
	21	Di-isopropyl ether	20.0	21.7	108.46	80-120
	22	Chloroprene	20.0	21.5	107.74	80-120
	23	Propionitrile	200	232	115.95	80-120
	24	Methacrylonitrile	200	233	116.67	80-120
	25	1,1-Dichloroethane	20.0	19.2	95.86	80-120
	26	Acrylonitrile	100	111	110.67	80-120
	27	Ethyl tertiary-but	20.0	22.1	110.39	80-120
	28	Vinyl Acetate	20.0	20.0	100.11	80-120
	29	cis-1,2-Dichloroet	20.0	19.0	95.19	80-120
M	30	1,2-Dichloroethyle	40.0	37.3	93.23	80-120
	31	Methyl Methacrylat	20.0	24.0	120.02*	80-120
	32	2,2-Dichloropropan	20.0	17.4	87.08	80-120
	33	Bromochloromethane	20.0	19.8	98.86	80-120
	34	Chloroform	20.0	18.5	92.39	80-120
	35	Carbon Tetrachlori	20.0	19.0	95.04	80-120
	36	Tetrahydrofuran	20.0	18.8	93.78	80-120
	38	1,1,1-Trichloroeth	20.0	18.9	94.67	80-120
	39	1,1-Dichloropropen	20.0	20.0	99.98	80-120
	40	2-Butanone	20.0	20.5	102.45	80-120
	41	Benzene	20.0	20.4	101.94	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0800.D
Report Date: 21-Jan-2015 13:22

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	20.0	19.6	98.12	80-120
	44	Ethyl Methacrylate	20.0	21.4	106.93	80-120
	46	Tertiary-amyl meth	20.0	20.6	103.20	80-120
	47	1,2-Dichloroethane	20.0	18.6	93.13	80-120
	48	Trichloroethene	20.0	18.9	94.63	80-120
	50	Dibromomethane	20.0	18.5	92.37	80-120
	51	1,2-Dichloropropan	20.0	20.0	99.88	80-120
	52	Bromodichlorometha	20.0	19.6	97.87	80-120
	53	cis-1,3-dichloropr	20.0	18.5	92.37	80-120
	54	1,4-Dioxane	400	550	137.40*	80-120
	56	2-Chloroethylvinyl	20.0	23.4	117.08	80-120
	57	Toluene	20.0	20.3	101.54	80-120
	58	4-methyl-2-pentano	20.0	22.2	110.86	80-120
	59	Tetrachloroethene	20.0	19.9	99.53	80-120
	60	trans-1,3-Dichloro	20.0	20.0	99.98	80-120
	61	1,1,2-Trichloroeth	20.0	19.2	95.81	80-120
	62	Dibromochlorometha	20.0	19.2	96.24	80-120
	63	1,3-Dichloropropan	20.0	20.5	102.65	80-120
	64	1,2-Dibromoethane	20.0	18.3	91.30	80-120
	65	2-Hexanone	20.0	21.4	106.91	80-120
	67	Chlorobenzene	20.0	19.6	97.95	80-120
	152	1-Chlorohexane	20.0	19.3	96.36	80-120
	68	Ethylbenzene	20.0	20.7	103.62	80-120
	69	1,1,1,2-Tetrachlor	20.0	20.3	101.48	80-120
M	70	Xylenes (total)	60.0	62.4	103.94	80-120
	71	m+p-Xylenes	40.0	41.9	104.68	80-120
	72	o-Xylene	20.0	20.5	102.47	80-120
	73	Styrene	20.0	21.6	107.76	80-120
	74	Bromoform	20.0	19.4	97.01	80-120
	75	Isopropylbenzene	20.0	21.0	104.88	80-120
	77	cis-1,4-Dichloro-2	20.0	20.4	101.89	80-120
	78	trans-1,4-Dichloro	20.0	21.0	105.15	80-120
	79	Bromobenzene	20.0	19.8	98.92	80-120
	80	N-Propylbenzene	20.0	21.4	107.00	80-120
	81	1,1,2,2-Tetrachlor	20.0	19.5	97.64	80-120
	82	1,3,5-Trimethylben	20.0	21.3	106.63	80-120
	83	2-Chlorotoluene	20.0	19.9	99.56	80-120
	84	1,2,3-Trichloropro	20.0	19.4	96.83	80-120
	85	4-Chlorotoluene	20.0	20.3	101.73	80-120
	86	tert-Butylbenzene	20.0	21.0	105.11	80-120
	87	Pentachloroethane	20.0	20.4	101.78	80-120
	88	1,2,4-Trimethylben	20.0	22.0	109.82	80-120
	89	P-Isopropyltoluene	20.0	23.0	115.29	80-120
	90	1,3-Dichlorobenzen	20.0	19.5	97.65	80-120
	92	1,4-Dichlorobenzen	20.0	19.7	98.73	80-120
	93	N-Butylbenzene	20.0	24.0	119.93	80-120
	94	sec-Butylbenzene	20.0	22.4	111.84	80-120
	95	1,2-Dichlorobenzen	20.0	19.8	99.15	80-120
	96	1,2-Dibromo-3-Chlo	20.0	19.0	95.30	80-120
	97	1,3,5-Trichloroben	20.0	22.7	113.67	80-120
	98	Hexachlorobutadien	20.0	22.7	113.48	80-120
	99	1,2,4-Trichloroben	20.0	22.3	111.55	80-120
	100	1,2,3-Trimethylben	20.0	22.2	110.83	80-120
	101	Naphthalene	20.0	23.5	117.55	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0800.D
Report Date: 21-Jan-2015 13:22

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	20.0	22.2	111.24	80-120
103 Methyl Acetate	20.0	21.9	109.68	80-120
104 Methylcyclohexane	20.0	22.6	113.24	80-120
M 153 Total Alkylbenzene	140	176	125.79*	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	50.0	99.95	68-128
$ 45 1,2-Dichloroethane	50.0	48.0	96.05	67-135
$ 55 Toluene-D8	50.0	53.7	107.34	65-128
$ 76 P-Bromofluorobenze	50.0	51.1	102.26	56-133

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0792A.D
Report Date: 21-Jan-2015 13:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122914B.b\C0792A.D
Lab Smp Id: WG157320-4 Client Smp ID: Initial Calibration
Inj Date : 29-DEC-2014 15:30
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157320-4
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-c.i\C122914B.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.993	1.993	(0.248)	372789	50.0000	46.8	
2	Chloromethane	50	2.228	2.229	(0.277)	436544	50.0000	39.9	
3	Vinyl chloride	62	2.328	2.329	(0.290)	353961	50.0000	45.3	
4	Bromomethane	94	2.729	2.729	(0.339)	183031	50.0000	48.6	
5	Chloroethane	64	2.879	2.879	(0.358)	138364	50.0000	41.9	
6	Trichlorofluoromethane	101	3.058	3.058	(0.380)	506494	50.0000	45.9	
7	Diethyl Ether	59	3.494	3.494	(0.435)	205695	50.0000	46.0	
8	Tertiary-butyl alcohol	59	5.352	5.353	(0.666)	115619	250.000	234	
9	1,1-Dichloroethene	96	3.751	3.751	(0.467)	216657	50.0000	41.4	
10	Carbon Disulfide	76	3.787	3.787	(0.471)	712934	50.0000	45.5	
11	Freon-113	151	3.808	3.809	(0.474)	161204	50.0000	45.3	
12	Iodomethane	142	3.958	3.959	(0.492)	195759	50.0000	55.6	
13	Acrolein	56	4.266	4.266	(0.531)	232849	250.000	235	
14	Methylene Chloride	84	4.652	4.652	(0.579)	294750	50.0000	42.5	
15	Acetone	43	4.752	4.752	(0.591)	650445	250.000	255	
16	Isobutyl Alcohol	43	8.254	8.255	(1.027)	252900	1000.00	1060	
17	trans-1,2-Dichloroethene	96	4.916	4.917	(0.611)	246660	50.0000	43.1	
18	Allyl Chloride	41	4.473	4.473	(0.556)	447633	50.0000	49.6	
19	Methyl tert-butyl ether	73	5.130	5.131	(0.638)	1295830	100.000	97.4	
20	Acetonitrile	39	5.545	5.546	(0.690)	107468	500.000	414	
21	Di-isopropyl ether	45	5.788	5.789	(0.720)	881019	50.0000	51.4	
22	Chloroprene	53	5.910	5.910	(0.735)	421702	50.0000	50.0	
23	Propionitrile	54	7.968	7.969	(0.991)	530128	500.000	503	
24	Methacrylonitrile	41	7.990	7.990	(0.994)	1972174	500.000	500	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0792A.D
Report Date: 21-Jan-2015 13:20

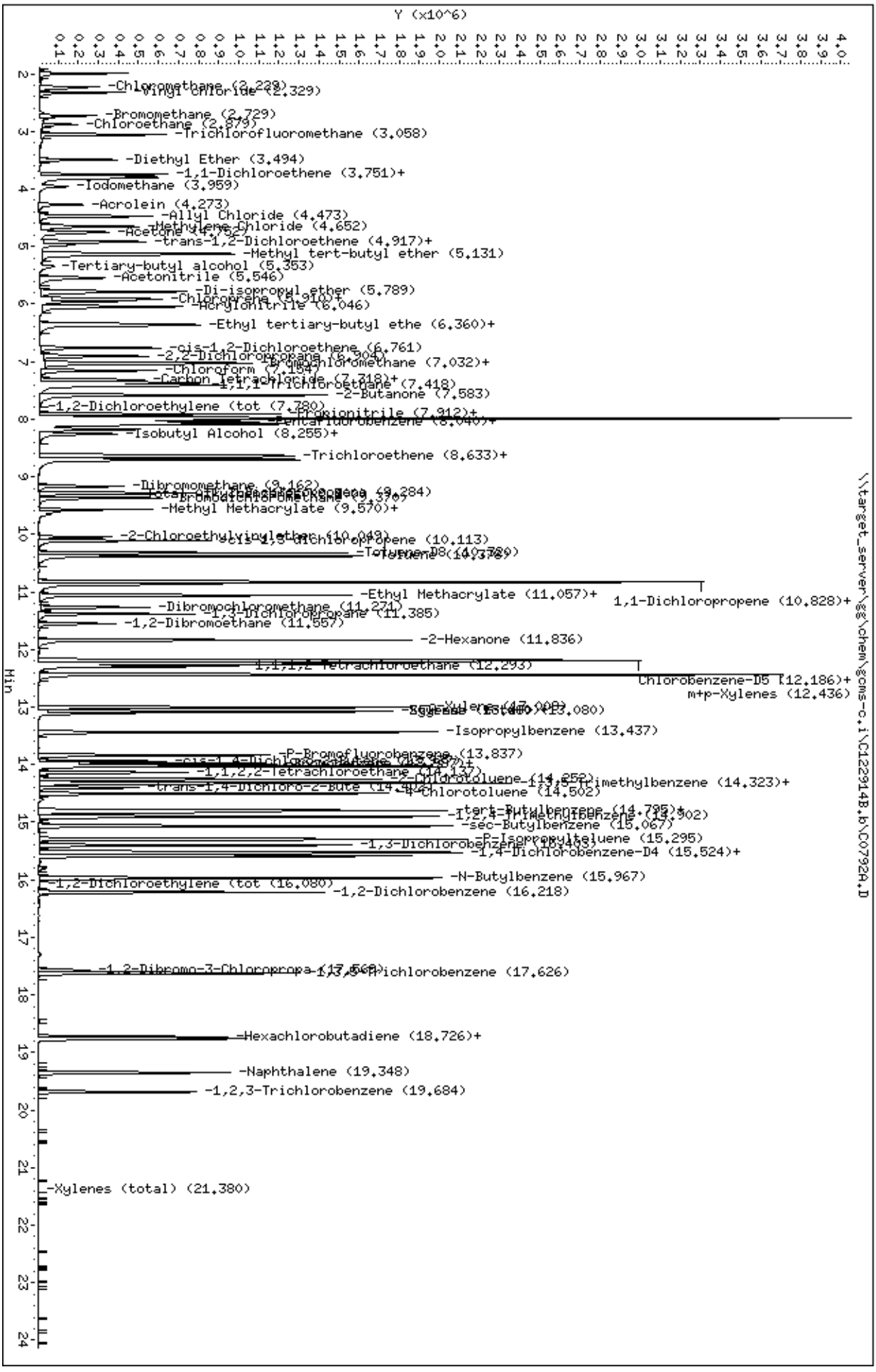
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.953	5.953	(0.740)	493662	50.0000	45.2	
	26 Acrylonitrile	52	6.045	6.046	(0.752)	560170	250.000	243	
	27 Ethyl tertiary-butyl ether	59	6.353	6.353	(0.790)	710016	50.0000	50.5	
	28 Vinyl Acetate	43	6.374	6.375	(0.732)	706086	50.0000	51.5	
	29 cis-1,2-Dichloroethene	96	6.760	6.761	(0.841)	273032	50.0000	43.7	
M	30 1,2-Dichloroethylene (total)	96				519692	50.0000	(a)	
	31 Methyl Methacrylate	41	9.569	9.570	(1.099)	275961	50.0000	55.0	
	32 2,2-Dichloropropane	77	6.910	6.911	(0.860)	391099	50.0000	46.6	
	33 Bromochloromethane	128	7.039	7.040	(0.876)	121281	50.0000	44.0	
	34 Chloroform	83	7.153	7.154	(0.890)	495352	50.0000	44.4	
	35 Carbon Tetrachloride	117	7.318	7.318	(0.841)	354616	50.0000	46.0	
	36 Tetrahydrofuran	42	7.361	7.361	(0.916)	525831	250.000	257	
$	37 Dibromofluoromethane	113	7.404	7.404	(0.921)	263986	50.0000	49.2	
	38 1,1,1-Trichloroethane	97	7.418	7.418	(0.923)	439814	50.0000	45.5	
	39 1,1-Dichloropropene	75	10.870	10.871	(1.249)	394418	50.0000	49.6	
	40 2-Butanone	43	7.582	7.583	(0.943)	875240	250.000	267	
	41 Benzene	78	7.911	7.912	(0.909)	1026408	50.0000	45.0	
*	42 Pentafluorobenzene	168	8.040	8.039	(1.000)	576456	50.0000		
	43 Cyclohexane	56	7.025	7.025	(0.874)	455258	50.0000	47.5	
	44 Ethyl Methacrylate	69	11.056	11.057	(1.270)	355277	50.0000	54.2	
$	45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	316175	50.0000	46.5	
	46 Tertiary-amyl methyl ether	73	8.083	8.083	(1.005)	619781	50.0000	51.1	
	47 1,2-Dichloroethane	62	8.176	8.176	(0.939)	381126	50.0000	45.2	
	48 Trichloroethene	95	8.654	8.654	(0.994)	260346	50.0000	43.3	
*	49 1,4-Difluorobenzene	114	8.704	8.705	(1.000)	952776	50.0000		
	50 Dibromomethane	93	9.162	9.162	(1.053)	167373	50.0000	44.7	
	51 1,2-Dichloropropane	63	9.283	9.284	(1.067)	269958	50.0000	46.9	
	52 Bromodichloromethane	83	9.369	9.370	(1.076)	380928	50.0000	47.8	
	53 cis-1,3-dichloropropene	75	10.113	10.113	(1.162)	461126	50.0000	49.2	
	54 1,4-Dioxane	88	9.612	9.613	(1.104)	61625	1000.00	614	
$	55 Toluene-D8	98	10.320	10.320	(1.186)	911427	50.0000	49.7	
	56 2-Chloroethylvinylether	63	10.048	10.049	(1.154)	134551	50.0000	62.3	
	57 Toluene	92	10.377	10.378	(1.192)	657469	50.0000	46.1	
	58 4-methyl-2-pentanone	43	10.827	10.828	(1.244)	1551650	250.000	265	
	59 Tetrachloroethene	164	10.820	10.821	(0.887)	230160	50.0000	45.6	
	60 trans-1,3-Dichloropropene	75	10.870	10.871	(1.249)	394418	50.0000	49.6	
	61 1,1,2-Trichloroethane	83	11.056	11.057	(1.270)	212823	50.0000	46.3	
	62 Dibromochloromethane	129	11.271	11.271	(0.924)	286734	50.0000	48.6	
	63 1,3-Dichloropropane	76	11.385	11.385	(0.934)	439838	50.0000	47.4	
	64 1,2-Dibromoethane	107	11.557	11.557	(1.328)	264992	50.0000	45.1	
	65 2-Hexanone	43	11.835	11.836	(0.971)	1213052	250.000	278	
*	66 Chlorobenzene-D5	117	12.193	12.193	(1.000)	966169	50.0000		
	67 Chlorobenzene	112	12.214	12.215	(1.002)	782575	50.0000	45.3	
	152 1-Chlorohexane	91	12.186	12.186	(0.999)	439670	50.0000	45.8	
	68 Ethylbenzene	106	12.250	12.250	(1.005)	408609	50.0000	45.8	
	69 1,1,1,2-Tetrachloroethane	131	12.293	12.293	(1.008)	274025	50.0000	48.7	
M	70 Xylenes (total)	106				1567970	150.000	(a)	
	71 m+p-Xylenes	106	12.436	12.436	(1.020)	1044892	100.000	96.1	
	72 o-Xylene	106	13.008	13.008	(1.067)	523078	50.0000	48.7	
	73 Styrene	104	13.079	13.080	(1.073)	837288	50.0000	50.9	
	74 Bromoform	173	13.115	13.115	(1.076)	192735	50.0000	50.5	
	75 Isopropylbenzene	105	13.436	13.437	(0.866)	1358580	50.0000	48.4	
$	76 P-Bromofluorobenzene	95	13.837	13.837	(1.590)	400661	50.0000	48.6	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.937	(0.898)	148879	50.0000	52.0	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0792A.D
Report Date: 21-Jan-2015 13:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.401	14.402	(0.928)	117859	50.0000	52.6	
	79 Bromobenzene	156	13.987	13.987	(0.901)	331667	50.0000	45.8	
	80 N-Propylbenzene	91	14.030	14.030	(0.904)	1673789	50.0000	48.2	
	81 1,1,2,2-Tetrachloroethane	83	14.137	14.137	(0.911)	391336	50.0000	45.3	
	82 1,3,5-Trimethylbenzene	105	14.316	14.316	(0.923)	1177625	50.0000	49.8	
	83 2-Chlorotoluene	91	14.251	14.252	(0.918)	1028277	50.0000	47.3	
	84 1,2,3-Trichloropropane	75	14.330	14.330	(0.924)	322728	50.0000	45.5	
	85 4-Chlorotoluene	91	14.502	14.502	(0.935)	1056528	50.0000	47.9	
	86 tert-Butylbenzene	119	14.795	14.795	(0.953)	1226179	50.0000	48.6	
	87 Pentachloroethane	117	14.823	14.824	(0.955)	267296	50.0000	50.4	
	88 1,2,4-Trimethylbenzene	105	14.902	14.902	(0.960)	1150141	50.0000	49.1	
	89 P-Isopropyltoluene	119	15.295	15.295	(0.986)	1286747	50.0000	49.6	
	90 1,3-Dichlorobenzene	146	15.402	15.403	(0.993)	671462	50.0000	45.9	
*	91 1,4-Dichlorobenzene-D4	152	15.517	15.517	(1.000)	535309	50.0000		
	92 1,4-Dichlorobenzene	146	15.545	15.546	(1.002)	646655	50.0000	44.1	
	93 N-Butylbenzene	91	15.967	15.967	(1.029)	1249067	50.0000	49.5	
	94 sec-Butylbenzene	105	15.066	15.067	(0.971)	1572311	50.0000	48.4	
	95 1,2-Dichlorobenzene	146	16.217	16.218	(1.045)	616659	50.0000	47.1	
	96 1,2-Dibromo-3-Chloropropane	75	17.568	17.569	(1.132)	71046	50.0000	46.5	
	97 1,3,5-Trichlorobenzene	180	17.625	17.626	(1.136)	454623	50.0000	45.5	
	98 Hexachlorobutadiene	225	18.726	18.726	(1.207)	192472	50.0000	41.0	
	99 1,2,4-Trichlorobenzene	180	18.762	18.762	(1.209)	335641	50.0000	46.3	
	100 1,2,3-Trimethylbenzene	105	15.588	15.589	(1.005)	1153868	50.0000	48.8	
	101 Naphthalene	128	19.348	19.348	(1.247)	819939	50.0000	53.9	
	102 1,2,3-Trichlorobenzene	180	19.684	19.684	(1.269)	265692	50.0000	46.4	
	103 Methyl Acetate	43	4.973	4.974	(0.619)	258013	50.0000	46.3	
	104 Methylcyclohexane	83	8.626	8.625	(1.073)	446862	50.0000	49.3	
M	153 Total Alkylbenzenes	100				10694439	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0792A.D
Date : 29-DEC-2014 15:30
Client ID: Initial Calibration
Sample Info: WG157320-4
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C122914B.b\C0792A.D
Y (x10^6)
Min
-Chloromethane (2.229)
-Vinyl Chloride (2.329)
-Bromomethane (2.729)
-Chloroethane (2.879)
-Trichlorofluoromethane (3.058)
-Diethyl Ether (3.494)
-1,1-Dichloroethene (3.751)+
-Iodomethane (3.959)
-Acrolein (4.273)
-Allyl Chloride (4.473)
-Methylene Chloride (4.652)
-Acetone (4.752)
-trans-1,2-Dichloroethene (4.917)+
-Methyl tert-butyl ether (5.131)
-Tertiary-butyl alcohol (5.353)
-Acetonitrile (5.546)
-Di-isopropyl ether (5.789)
-Chloroprene (6.010)
-Acrylonitrile (6.046)
-Ethyl tertiary-butyl ethe (6.360)+
-cis-1,2-Dichloroethene (6.761)
-2,2-Dichloropropane (6.904)
-Bromochloromethane (7.032)+
-Chloroform (7.154)
-Carbon tetrachloride (7.318)+
1,1,1-Trichloroethane (7.418)
-2-Butanone (7.583)
-1,2-Dichloroethylene (tot (7.780)
-Propionitrile (7.912)+
-Pentafluorobenzene (8.040)+
-Isobutyl Alcohol (8.255)+
-Trichloroethene (8.633)+
-Dibromomethane (9.162)
-Bromodichloromethane (9.376)
-Methyl Methacrylate (9.570)+
-2-Chloroethylvinylether (10.049)
-cis-1,3-Dichloropropene (10.113)
-Toluene-D8 (10.729)
-Toluene (10.778)
1,1-Dichloropropene (10.828)+
-Ethyl Methacrylate (11.057)+
-Dibromochloromethane (11.271)
-1,3-Dichloropropane (11.385)
-1,2-Dibromoethane (11.557)
-2-Hexanone (11.836)
1,1,1,2-Tetrachloroethane (12.293)
Chlorobenzene-D5 (12.186)+
m+p-Xylenes (12.436)
-o-Xylene (13.080)
-Isopropylbenzene (13.437)
-P-Bromofluorobenzene (13.837)
-1,1,2,2-Tetrachloroethane (14.137)
-Chlorotoluene (14.252)
-1,3,5-Trimethylbenzene (14.323)+
-trans-1,4-Dichloro-2-Bute (14.424)
-4-Chlorotoluene (14.502)
-tert-Butylbenzene (14.795)+
-1,2,4-Trimethylbenzene (14.902)
-sec-Butylbenzene (15.067)
-P-Isopropyltoluene (15.295)
-1,3-Dichlorobenzene (15.403)
-1,4-Dichlorobenzene-D4 (15.524)+
-N-Butylbenzene (15.967)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.218)
-1,2-Dibromo-3-Chloropropa (17.568)
-1,3,5-Trichlorobenzene (17.626)
-Hexachlorobutadiene (18.726)+
-Naphthalene (19.348)
-1,2,3-Trichlorobenzene (19.684)
-Xylenes (total) (21.380)

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0793A.D
Report Date: 21-Jan-2015 13:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122914B.b\C0793A.D
Lab Smp Id: WG157320-3 Client Smp ID: Initial Calibration
Inj Date : 29-DEC-2014 16:02
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157320-3
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-c.i\C122914B.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 16:02 Cal File: C0793.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.993	1.993	(0.248)	149735	20.0000	22.4	
2	Chloromethane	50	2.229	2.229	(0.277)	193943	20.0000	24.8	
3	Vinyl chloride	62	2.329	2.329	(0.290)	150151	20.0000	23.7	
4	Bromomethane	94	2.729	2.729	(0.339)	61940	20.0000	18.9	
5	Chloroethane	64	2.886	2.879	(0.359)	60831	20.0000	24.5	
6	Trichlorofluoromethane	101	3.058	3.058	(0.380)	198189	20.0000	21.8	
7	Diethyl Ether	59	3.494	3.494	(0.435)	77918	20.0000	21.2	
8	Tertiary-butyl alcohol	59	5.345	5.353	(0.665)	45943	100.000	111	
9	1,1-Dichloroethene	96	3.751	3.751	(0.467)	96309	20.0000	24.8	
10	Carbon Disulfide	76	3.787	3.787	(0.471)	292616	20.0000	22.9	
11	Freon-113	151	3.815	3.809	(0.475)	64889	20.0000	22.5	
12	Iodomethane	142	3.958	3.959	(0.492)	61527	20.0000	17.5	
13	Acrolein	56	4.273	4.266	(0.531)	92528	100.000	111	
14	Methylene Chloride	84	4.652	4.652	(0.579)	124710	20.0000	23.6	
15	Acetone	43	4.752	4.752	(0.591)	250179	100.000	107	
16	Isobutyl Alcohol	43	8.254	8.255	(1.027)	82932	400.000	366	
17	trans-1,2-Dichloroethene	96	4.923	4.917	(0.612)	108866	20.0000	24.6	
18	Allyl Chloride	41	4.480	4.473	(0.557)	178972	20.0000	22.3	
19	Methyl tert-butyl ether	73	5.131	5.131	(0.638)	506692	40.0000	43.7	
20	Acetonitrile	39	5.545	5.546	(0.690)	46963	200.000	244	
21	Di-isopropyl ether	45	5.788	5.789	(0.720)	333742	20.0000	21.2	
22	Chloroprene	53	5.910	5.910	(0.735)	163885	20.0000	21.7	
23	Propionitrile	54	7.968	7.969	(0.991)	213458	200.000	225	
24	Methacrylonitrile	41	7.990	7.990	(0.994)	826125	200.000	234	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0793A.D
Report Date: 21-Jan-2015 13:20

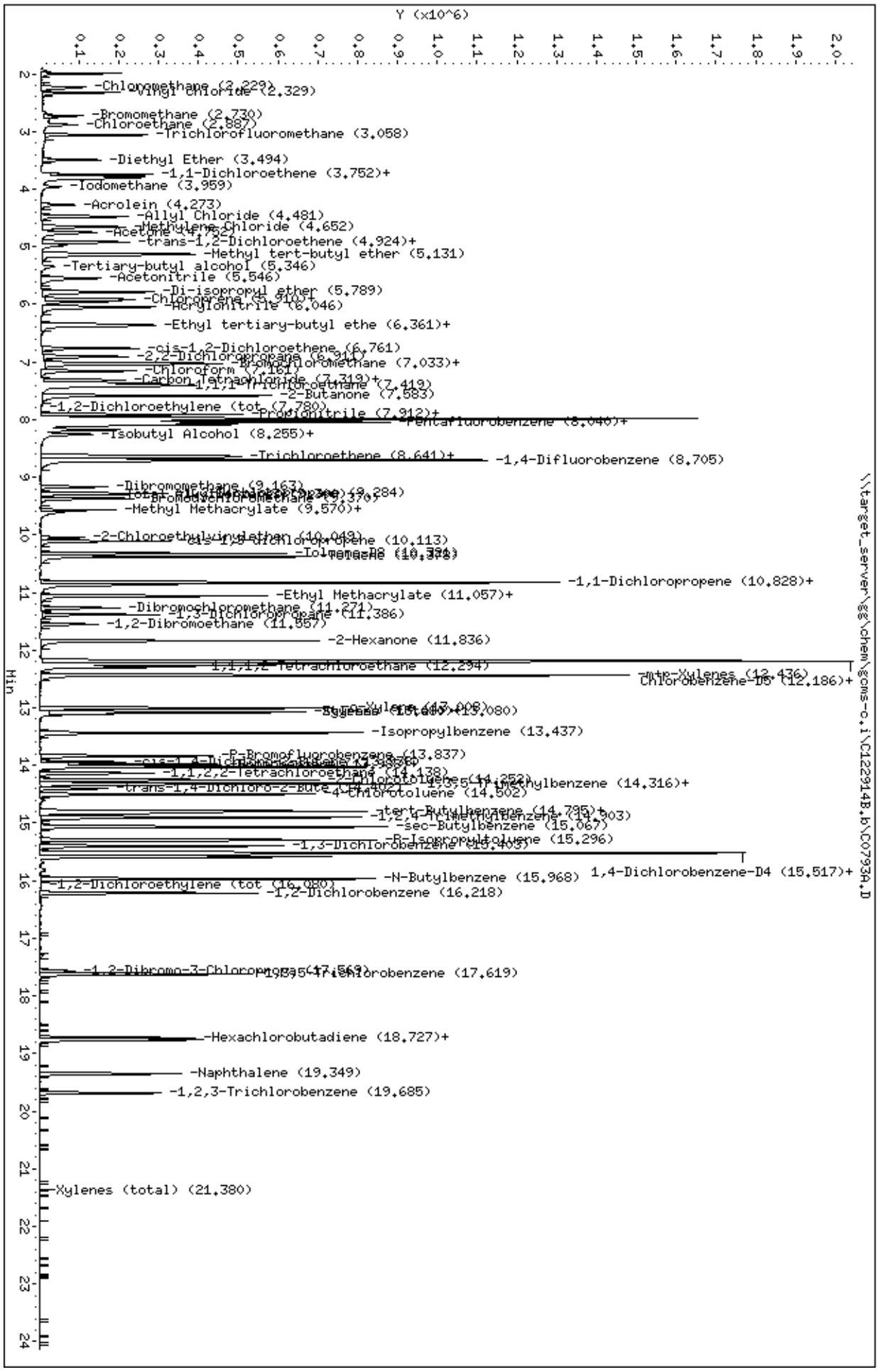
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.953	5.953	(0.740)	204313	20.0000	23.1	
	26 Acrylonitrile	52	6.046	6.046	(0.752)	221019	100.000	110	
	27 Ethyl tertiary-butyl ether	59	6.353	6.353	(0.790)	262781	20.0000	20.7	
	28 Vinyl Acetate	43	6.374	6.375	(0.732)	259013	20.0000	20.8	
	29 cis-1,2-Dichloroethene	96	6.760	6.761	(0.841)	113024	20.0000	23.1	
M	30 1,2-Dichloroethylene (total)	96				221890	20.0000	(a)	
	31 Methyl Methacrylate	41	9.570	9.570	(1.099)	96849	20.0000	19.9	
	32 2,2-Dichloropropane	77	6.911	6.911	(0.860)	156696	20.0000	22.4	
	33 Bromochloromethane	128	7.039	7.040	(0.876)	50125	20.0000	23.1	
	34 Chloroform	83	7.161	7.154	(0.891)	202844	20.0000	22.9	
	35 Carbon Tetrachloride	117	7.318	7.318	(0.841)	142237	20.0000	22.7	
	36 Tetrahydrofuran	42	7.361	7.361	(0.916)	202150	100.000	107	
$	37 Dibromofluoromethane	113	7.404	7.404	(0.921)	103872	20.0000	22.0	
	38 1,1,1-Trichloroethane	97	7.418	7.418	(0.923)	180404	20.0000	22.9	
	39 1,1-Dichloropropene	75	10.871	10.871	(1.249)	148968	20.0000	21.4	
	40 2-Butanone	43	7.582	7.583	(0.943)	339255	100.000	108	
	41 Benzene	78	7.911	7.912	(0.909)	434790	20.0000	24.0	
*	42 Pentafluorobenzene	168	8.040	8.039	(1.000)	516207	50.0000		
	43 Cyclohexane	56	7.025	7.025	(0.874)	184610	20.0000	22.6	
	44 Ethyl Methacrylate	69	11.056	11.057	(1.270)	127108	20.0000	20.3	
$	45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	128530	20.0000	22.7	
	46 Tertiary-amyl methyl ether	73	8.083	8.083	(1.005)	221405	20.0000	19.9	
	47 1,2-Dichloroethane	62	8.176	8.176	(0.939)	150744	20.0000	22.4	
	48 Trichloroethene	95	8.655	8.654	(0.994)	111172	20.0000	24.2	
*	49 1,4-Difluorobenzene	114	8.705	8.705	(1.000)	840628	50.0000		
	50 Dibromomethane	93	9.162	9.162	(1.053)	67270	20.0000	22.8	
	51 1,2-Dichloropropane	63	9.284	9.284	(1.067)	104549	20.0000	21.9	
	52 Bromodichloromethane	83	9.369	9.370	(1.076)	145340	20.0000	21.6	
	53 cis-1,3-dichloropropene	75	10.113	10.113	(1.162)	175259	20.0000	21.5	
	54 1,4-Dioxane	88	9.613	9.613	(1.104)	36352	400.000	668	
$	55 Toluene-D8	98	10.320	10.320	(1.186)	367917	20.0000	22.9	
	56 2-Chloroethylvinylether	63	10.049	10.049	(1.154)	43419	20.0000	18.3	
	57 Toluene	92	10.377	10.378	(1.192)	270293	20.0000	23.3	
	58 4-methyl-2-pentanone	43	10.828	10.828	(1.244)	622063	100.000	114	
	59 Tetrachloroethene	164	10.821	10.821	(0.888)	90964	20.0000	22.5	
	60 trans-1,3-Dichloropropene	75	10.871	10.871	(1.249)	148968	20.0000	21.4	
	61 1,1,2-Trichloroethane	83	11.056	11.057	(1.270)	83297	20.0000	22.2	
	62 Dibromochloromethane	129	11.271	11.271	(0.925)	104089	20.0000	20.6	
	63 1,3-Dichloropropane	76	11.385	11.385	(0.934)	169754	20.0000	21.9	
	64 1,2-Dibromoethane	107	11.557	11.557	(1.328)	101781	20.0000	21.8	
	65 2-Hexanone	43	11.836	11.836	(0.971)	464765	100.000	109	
*	66 Chlorobenzene-D5	117	12.186	12.193	(1.000)	849470	50.0000		
	67 Chlorobenzene	112	12.214	12.215	(1.002)	315262	20.0000	22.9	
	152 1-Chlorohexane	91	12.179	12.186	(0.999)	177786	20.0000	22.6	
	68 Ethylbenzene	106	12.243	12.250	(1.005)	165028	20.0000	23.0	
	69 1,1,1,2-Tetrachloroethane	131	12.293	12.293	(1.009)	105181	20.0000	21.8	
M	70 Xylenes (total)	106				634830	60.0000	(a)	
	71 m+p-Xylenes	106	12.436	12.436	(1.021)	423956	40.0000	46.1	
	72 o-Xylene	106	13.008	13.008	(1.067)	210874	20.0000	22.9	
	73 Styrene	104	13.079	13.080	(1.073)	323459	20.0000	22.0	
	74 Bromoform	173	13.115	13.115	(1.076)	66261	20.0000	19.6	
	75 Isopropylbenzene	105	13.437	13.437	(0.866)	559315	20.0000	23.6	
$	76 P-Bromofluorobenzene	95	13.837	13.837	(1.590)	156363	20.0000	22.1	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.937	(0.898)	51892	20.0000	20.0	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0793A.D
Report Date: 21-Jan-2015 13:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.402	14.402	(0.928)	41932	20.0000	20.4	
	79 Bromobenzene	156	13.987	13.987	(0.901)	129194	20.0000	22.4	
	80 N-Propylbenzene	91	14.030	14.030	(0.904)	705612	20.0000	24.2	
	81 1,1,2,2-Tetrachloroethane	83	14.137	14.137	(0.911)	155533	20.0000	22.8	
	82 1,3,5-Trimethylbenzene	105	14.316	14.316	(0.923)	476434	20.0000	23.2	
	83 2-Chlorotoluene	91	14.252	14.252	(0.918)	424031	20.0000	23.7	
	84 1,2,3-Trichloropropane	75	14.330	14.330	(0.924)	128641	20.0000	22.9	
	85 4-Chlorotoluene	91	14.502	14.502	(0.935)	425199	20.0000	23.1	
	86 tert-Butylbenzene	119	14.795	14.795	(0.953)	490668	20.0000	23.0	
	87 Pentachloroethane	117	14.823	14.824	(0.955)	97140	20.0000	20.8	
	88 1,2,4-Trimethylbenzene	105	14.902	14.902	(0.960)	468721	20.0000	23.4	
	89 P-Isopropyltoluene	119	15.295	15.295	(0.986)	520837	20.0000	23.2	
	90 1,3-Dichlorobenzene	146	15.402	15.403	(0.993)	266594	20.0000	22.8	
*	91 1,4-Dichlorobenzene-D4	152	15.517	15.517	(1.000)	466438	50.0000		
	92 1,4-Dichlorobenzene	146	15.538	15.546	(1.001)	255422	20.0000	22.7	
	93 N-Butylbenzene	91	15.967	15.967	(1.029)	517709	20.0000	23.8	
	94 sec-Butylbenzene	105	15.066	15.067	(0.971)	663068	20.0000	24.2	
	95 1,2-Dichlorobenzene	146	16.217	16.218	(1.045)	240114	20.0000	22.3	
	96 1,2-Dibromo-3-Chloropropane	75	17.568	17.569	(1.132)	27044	20.0000	21.8	
	97 1,3,5-Trichlorobenzene	180	17.618	17.626	(1.135)	180690	20.0000	22.8	
	98 Hexachlorobutadiene	225	18.726	18.726	(1.207)	81525	20.0000	24.3	
	99 1,2,4-Trichlorobenzene	180	18.762	18.762	(1.209)	130973	20.0000	22.4	
	100 1,2,3-Trimethylbenzene	105	15.581	15.589	(1.004)	458319	20.0000	22.8	
	101 Naphthalene	128	19.348	19.348	(1.247)	304451	20.0000	21.3	
	102 1,2,3-Trichlorobenzene	180	19.684	19.684	(1.269)	100997	20.0000	21.8	
	103 Methyl Acetate	43	4.981	4.974	(0.620)	99462	20.0000	21.5	
	104 Methylcyclohexane	83	8.633	8.625	(1.074)	169343	20.0000	21.2	
M	153 Total Alkylbenzenes	100				4402364	20.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0793A.D
Date : 29-DEC-2014 16:02
Client ID: Initial Calibration
Sample Info: WG157320-3
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.229)
-Vinyl chloride (2.329)
-Bromomethane (2.730)
-Chloroethane (2.887)
-Trichlorofluoromethane (3.058)
-Diethyl Ether (3.494)
-1,1-Dichloroethene (3.752)+
-Iodomethane (3.959)
-Acrolein (4.273)
-Allyl Chloride (4.481)
-Methylene Chloride (4.652)
-Acetone (4.752)
-trans-1,2-Dichloroethene (4.924)+
-Methyl tert-butyl ether (5.131)
-Tertiary-butyl alcohol (5.346)
-Acetonitrile (5.546)
-Di-isopropyl ether (5.789)
-Chloroprene (6.010)
-Acrylonitrile (6.046)
-Ethyl tertiary-butyl ethe (6.361)+
-cis-1,2-Dichloroethene (6.761)
-2,2-Dichloropropane (6.917)
-Bromochloromethane (7.033)+
-Chloroform (7.161)
-Carbon tetrachloride (7.319)+
1,1,1-Trichloroethane (7.419)
-2-Butanone (7.583)
-1,2-Dichloroethylene (tot (7.780)
-Propionitrile (7.912)+
-Pentafluorobenzene (8.040)+
-Isobutyl Alcohol (8.255)+
-Trichloroethene (8.641)+
-1,4-Difluorobenzene (8.705)
-Dibromomethane (9.163)
-Bromodichloromethane (9.370)
-Methyl Methacrylate (9.570)+
-2-Chloroethylvinylether (10.049)
-1,1-Dichloropropene (10.828)+
-Ethyl Methacrylate (11.057)+
-Dibromochloromethane (11.271)
-1,2-Dibromoethane (11.557)
-2-Hexanone (11.836)
1,1,1,2-Tetrachloroethane (12.294)
-m,p-Xylenes (13.436)
Chlorobenzene-D5 (12.186)+
-Isopropylbenzene (13.437)
-P-Bromofluorobenzene (13.837)
-1,1,2,2-Tetrachloroethane (14.138)
-trans-1,4-Dichloro-2-Bute
-4-Chlorotoluene (14.502)
-tert-Butylbenzene (14.795)+
-sec-Butylbenzene (15.067)
-1,3-Dichlorobenzene (15.403)
-N-Butylbenzene (15.968)
1,4-Dichlorobenzene-D4 (15.517)+
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.218)
-1,2-Dibromo-3-Chloropropa (17.569)
-1,2,4-Trichlorobenzene (17.619)
-Hexachlorobutadiene (18.727)+
-Naphthalene (19.349)
-1,2,3-Trichlorobenzene (19.685)
-Xylenes (total) (21.380)
\\target_server\gg\chem\gcms-c.i\C122914B.b\C0793A.D

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0794A.D
Report Date: 21-Jan-2015 13:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122914B.b\C0794A.D
Lab Smp Id: WG157320-2 Client Smp ID: Initial Calibration
Inj Date : 29-DEC-2014 16:34
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157320-2
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-c.i\C122914B.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 16:34 Cal File: C0794.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.993	1.993	(0.248)	37634	5.00000	5.5	
2	Chloromethane	50	2.229	2.229	(0.277)	55701	5.00000	6.6	
3	Vinyl chloride	62	2.329	2.329	(0.290)	37990	5.00000	5.7	
4	Bromomethane	94	2.730	2.729	(0.340)	13823	5.00000	4.5	
5	Chloroethane	64	2.887	2.879	(0.359)	18478	5.00000	7.0	
6	Trichlorofluoromethane	101	3.066	3.058	(0.381)	50305	5.00000	5.5	
7	Diethyl Ether	59	3.487	3.494	(0.434)	20574	5.00000	5.7	
8	Tertiary-butyl alcohol	59	5.346	5.353	(0.665)	9477	25.0000	22.6	
9	1,1-Dichloroethene	96	3.752	3.751	(0.467)	23443	5.00000	5.6	
10	Carbon Disulfide	76	3.788	3.787	(0.471)	66137	5.00000	5.0	
11	Freon-113	151	3.816	3.809	(0.475)	16373	5.00000	5.6	
12	Iodomethane	142	3.966	3.959	(0.493)	11347	5.00000	3.6	
13	Acrolein	56	4.274	4.266	(0.532)	20147	25.0000	23.9	
14	Methylene Chloride	84	4.652	4.652	(0.579)	31757	5.00000	5.8	
15	Acetone	43	4.760	4.752	(0.592)	56618	25.0000	24.4	
16	Isobutyl Alcohol	43	8.262	8.255	(1.028)	15537	100.000	74.7	
17	trans-1,2-Dichloroethene	96	4.917	4.917	(0.612)	26045	5.00000	5.5	
18	Allyl Chloride	41	4.481	4.473	(0.557)	41994	5.00000	5.2	
19	Methyl tert-butyl ether	73	5.131	5.131	(0.638)	113603	10.0000	9.8	
20	Acetonitrile	39	5.553	5.546	(0.691)	11692	50.0000	57.1	
21	Di-isopropyl ether	45	5.789	5.789	(0.720)	69960	5.00000	4.5	
22	Chloroprene	53	5.910	5.910	(0.735)	37267	5.00000	4.9	
23	Propionitrile	54	7.969	7.969	(0.991)	49308	50.0000	51.0	
24	Methacrylonitrile	41	7.991	7.990	(0.994)	199423	50.0000	54.3	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0794A.D
Report Date: 21-Jan-2015 13:20

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.946	5.953	(0.740)	50843	5.00000	5.6	
	26	Acrylonitrile	52	6.053	6.046	(0.753)	51316	25.0000	25.4	
	27	Ethyl tertiary-butyl ether	59	6.354	6.353	(0.790)	56484	5.00000	4.6	
	28	Vinyl Acetate	43	6.382	6.375	(0.733)	55407	5.00000	4.4	
	29	cis-1,2-Dichloroethene	96	6.761	6.761	(0.841)	27759	5.00000	5.5	
M	30	1,2-Dichloroethylene (total)	96				53804	5.00000	(a)	
	31	Methyl Methacrylate	41	9.577	9.570	(1.100)	17632	5.00000	3.7	
	32	2,2-Dichloropropane	77	6.911	6.911	(0.860)	37534	5.00000	5.3	
	33	Bromochloromethane	128	7.040	7.040	(0.876)	13684	5.00000	6.1	
	34	Chloroform	83	7.154	7.154	(0.890)	51699	5.00000	5.7	
	35	Carbon Tetrachloride	117	7.319	7.318	(0.841)	33528	5.00000	5.1	
	36	Tetrahydrofuran	42	7.369	7.361	(0.916)	47420	25.0000	25.3	
$	37	Dibromofluoromethane	113	7.404	7.404	(0.921)	23495	5.00000	4.9	
	38	1,1,1-Trichloroethane	97	7.419	7.418	(0.923)	44593	5.00000	5.5	
	39	1,1-Dichloropropene	75	10.871	10.871	(1.249)	32035	5.00000	4.5	
	40	2-Butanone	43	7.590	7.583	(0.944)	72242	25.0000	23.1	
	41	Benzene	78	7.912	7.912	(0.909)	105441	5.00000	5.4	
*	42	Pentafluorobenzene	168	8.041	8.039	(1.000)	494791	50.0000		
	43	Cyclohexane	56	7.018	7.025	(0.873)	44033	5.00000	5.3	
	44	Ethyl Methacrylate	69	11.064	11.057	(1.271)	24608	5.00000	4.0	
$	45	1,2-Dichloroethane-D4	65	8.091	8.090	(1.006)	32501	5.00000	5.6	
	46	Tertiary-amyl methyl ether	73	8.083	8.083	(1.005)	49232	5.00000	4.6	
	47	1,2-Dichloroethane	62	8.184	8.176	(0.940)	38040	5.00000	5.4	
	48	Trichloroethene	95	8.655	8.654	(0.994)	28007	5.00000	5.6	
*	49	1,4-Difluorobenzene	114	8.705	8.705	(1.000)	823052	50.0000		
	50	Dibromomethane	93	9.163	9.162	(1.053)	16363	5.00000	5.3	
	51	1,2-Dichloropropane	63	9.284	9.284	(1.067)	26667	5.00000	5.4	
	52	Bromodichloromethane	83	9.370	9.370	(1.076)	32518	5.00000	4.7	
	53	cis-1,3-dichloropropene	75	10.113	10.113	(1.162)	38216	5.00000	4.6	
	54	1,4-Dioxane	88	9.613	9.613	(1.104)	10718	100.000	151	
$	55	Toluene-D8	98	10.321	10.320	(1.186)	83756	5.00000	5.0	
	56	2-Chloroethylvinylether	63	10.049	10.049	(1.154)	8985	5.00000	4.0	
	57	Toluene	92	10.378	10.378	(1.192)	62252	5.00000	5.1	
	58	4-methyl-2-pentanone	43	10.828	10.828	(1.244)	138063	25.0000	24.1	
	59	Tetrachloroethene	164	10.821	10.821	(0.888)	22087	5.00000	5.3	
	60	trans-1,3-Dichloropropene	75	10.871	10.871	(1.249)	32035	5.00000	4.5	
	61	1,1,2-Trichloroethane	83	11.057	11.057	(1.270)	19749	5.00000	5.1	
	62	Dibromochloromethane	129	11.271	11.271	(0.925)	23035	5.00000	4.6	
	63	1,3-Dichloropropane	76	11.386	11.385	(0.934)	41079	5.00000	5.2	
	64	1,2-Dibromoethane	107	11.557	11.557	(1.328)	24321	5.00000	5.1	
	65	2-Hexanone	43	11.843	11.836	(0.972)	95206	25.0000	22.0	
*	66	Chlorobenzene-D5	117	12.186	12.193	(1.000)	824577	50.0000		
	67	Chlorobenzene	112	12.215	12.215	(1.002)	80095	5.00000	5.6	
	152	1-Chlorohexane	91	12.186	12.186	(1.000)	42850	5.00000	5.3	
	68	Ethylbenzene	106	12.244	12.250	(1.005)	40159	5.00000	5.4	
	69	1,1,1,2-Tetrachloroethane	131	12.301	12.293	(1.009)	23760	5.00000	4.8	
M	70	Xylenes (total)	106				146661	15.0000	(a)	
	71	m+p-Xylenes	106	12.437	12.436	(1.021)	101194	10.0000	10.5	
	72	o-Xylene	106	13.008	13.008	(1.067)	45467	5.00000	4.7	
	73	Styrene	104	13.080	13.080	(1.073)	73650	5.00000	4.9	
	74	Bromoform	173	13.116	13.115	(1.076)	13596	5.00000	4.2(M)	M6
	75	Isopropylbenzene	105	13.437	13.437	(0.866)	126991	5.00000	5.1	
$	76	P-Bromofluorobenzene	95	13.838	13.837	(1.590)	35727	5.00000	4.9	
	77	cis-1,4-Dichloro-2-Butene	53	13.938	13.937	(0.898)	11227	5.00000	4.5	

WAS

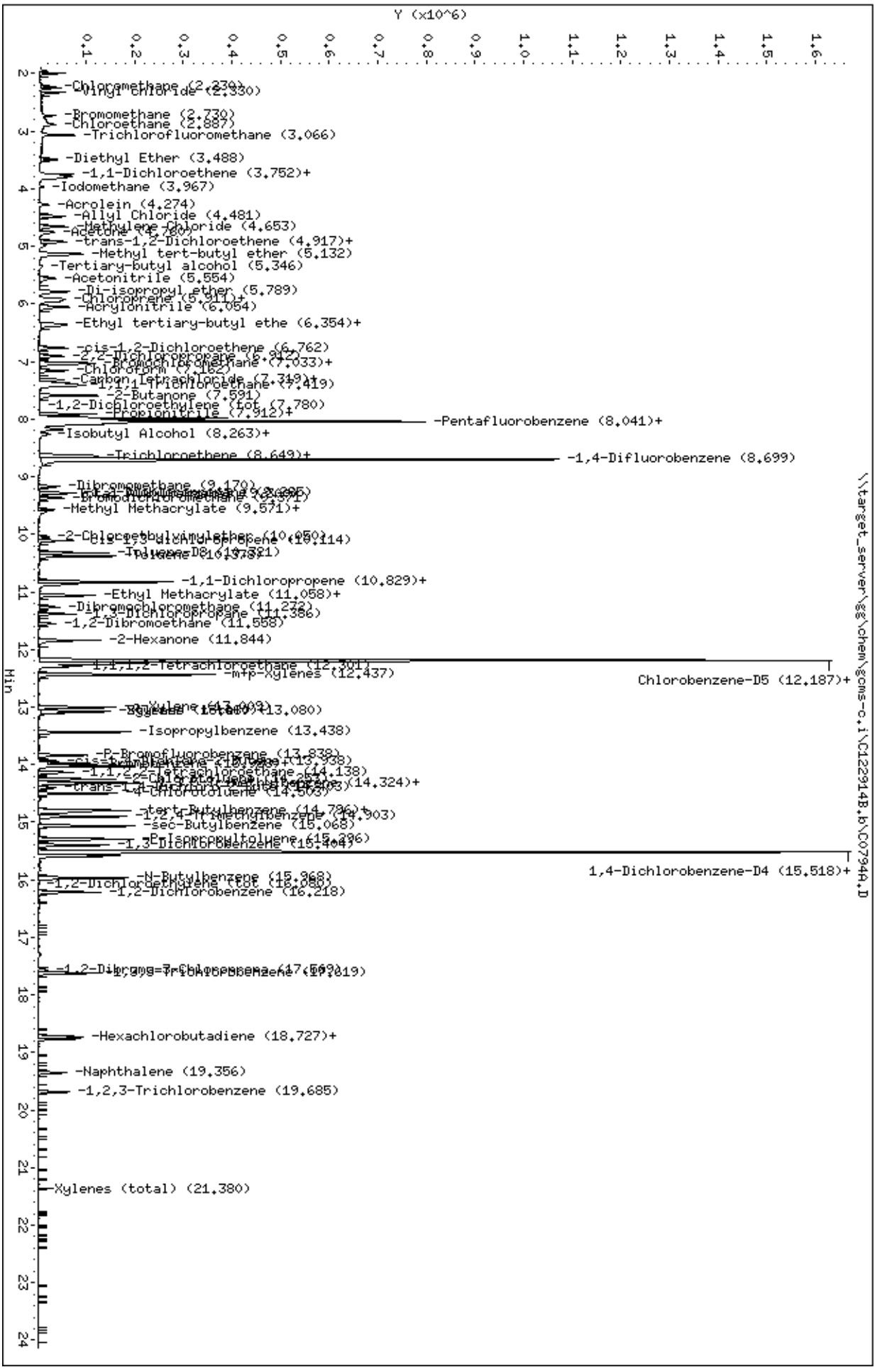
1:45 pm, Jan 21, 2015

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0794A.D
Report Date: 21-Jan-2015 13:20

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78	trans-1,4-Dichloro-2-Butene	53	14.402	14.402	(0.928)	8833	5.00000	4.4	
	79	Bromobenzene	156	13.988	13.987	(0.901)	30671	5.00000	5.2	
	80	N-Propylbenzene	91	14.031	14.030	(0.904)	170478	5.00000	5.5	
	81	1,1,2,2-Tetrachloroethane	83	14.138	14.137	(0.911)	37948	5.00000	5.4	
	82	1,3,5-Trimethylbenzene	105	14.317	14.316	(0.923)	107311	5.00000	5.0	
	83	2-Chlorotoluene	91	14.252	14.252	(0.918)	100225	5.00000	5.3	
	84	1,2,3-Trichloropropane	75	14.331	14.330	(0.924)	32132	5.00000	5.6	
	85	4-Chlorotoluene	91	14.502	14.502	(0.935)	101020	5.00000	5.3	
	86	tert-Butylbenzene	119	14.795	14.795	(0.953)	111731	5.00000	5.1	
	87	Pentachloroethane	117	14.824	14.824	(0.955)	18853	5.00000	4.1	
	88	1,2,4-Trimethylbenzene	105	14.903	14.902	(0.960)	105094	5.00000	5.0	
	89	P-Isopropyltoluene	119	15.296	15.295	(0.986)	119303	5.00000	5.1	
	90	1,3-Dichlorobenzene	146	15.403	15.403	(0.993)	64679	5.00000	5.4	
*	91	1,4-Dichlorobenzene-D4	152	15.517	15.517	(1.000)	447044	50.0000		
	92	1,4-Dichlorobenzene	146	15.539	15.546	(1.001)	63615	5.00000	5.5	
	93	N-Butylbenzene	91	15.968	15.967	(1.029)	114725	5.00000	5.0	
	94	sec-Butylbenzene	105	15.067	15.067	(0.971)	152565	5.00000	5.2	
	95	1,2-Dichlorobenzene	146	16.218	16.218	(1.045)	57036	5.00000	5.2	
	96	1,2-Dibromo-3-Chloropropane	75	17.562	17.569	(1.132)	5145	5.00000	4.1	
	97	1,3,5-Trichlorobenzene	180	17.626	17.626	(1.136)	41140	5.00000	5.1	
	98	Hexachlorobutadiene	225	18.727	18.726	(1.207)	19856	5.00000	5.6	
	99	1,2,4-Trichlorobenzene	180	18.763	18.762	(1.209)	28686	5.00000	4.8	
	100	1,2,3-Trimethylbenzene	105	15.582	15.589	(1.004)	103757	5.00000	5.0	
	101	Naphthalene	128	19.356	19.348	(1.247)	50140	5.00000	3.5	
	102	1,2,3-Trichlorobenzene	180	19.685	19.684	(1.269)	21912	5.00000	4.7	
	103	Methyl Acetate	43	4.981	4.974	(0.620)	21121	5.00000	4.6	
	104	Methylcyclohexane	83	8.634	8.625	(1.074)	38598	5.00000	4.9	
M	153	Total Alkylbenzenes	100				1008198	5.00000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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Date : 29-DEC-2014 16:34
Client ID: Initial Calibration
Sample Info: WG157320-2
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.239)
-Vinyl chloride (2.330)
-Bromomethane (2.739)
-Chloroethane (2.887)
-Trichlorofluoromethane (3.066)
-Diethyl Ether (3.488)
-1,1-Dichloroethene (3.752)+
-Iodomethane (3.967)
-Acrolein (4.274)
-Allyl Chloride (4.481)
-Methylene Chloride (4.653)
-Acetone (4.760)
-trans-1,2-Dichloroethene (4.917)+
-Methyl tert-butyl ether (5.132)
-Tertiary-butyl alcohol (5.346)
-Acetonitrile (5.554)
-Di-isopropyl ether (5.789)
-Chloroprene (5.911)+
-Acrylonitrile (6.054)
-Ethyl tertiary-butyl ethe (6.354)+
-cis-1,2-Dichloroethene (6.762)
-2,2-Dichloropropane (6.942)
-Bromochloromethane (7.033)+
-Chloroform (7.162)
-Carbon Tetrachloride (7.319)+
-1,1,1-Trichloroethane (7.419)
-2-Butanone (7.591)
-1,2-Dichloroethylene (tot (7.780)
-Propionitrile (7.912)+
-Pentafluorobenzene (8.041)+
-Isobutyl Alcohol (8.263)+
-Trichloroethene (8.649)+
-1,4-Difluorobenzene (8.699)
-Dibromomethane (9.170)
-Bromodichloromethane (9.371)
-Methyl Methacrylate (9.571)+
-2-Chloroethylvinylether (10.050)
-Toluene-D8 (10.321)
-1,1-Dichloropropene (10.829)+
-Ethyl Methacrylate (11.058)+
-Dibromochloromethane (11.272)
-1,3-Dichloropropane (11.386)
-1,2-Dibromoethane (11.558)
-2-Hexanone (11.844)
-1,1,1,2-Tetrachloroethane (12.301)
-m+p-Xylenes (12.437)
Chlorobenzene-D5 (12.187)+
-Isopropylbenzene (13.438)
-P-Bromofluorobenzene (13.838)
-1,1,2,2-Tetrachloroethane (14.138)
-trans-1,4-Dichloro-2-butene (14.324)+
-4-Chlorotoluene (14.563)
-tert-Butylbenzene (14.796)+
-1,2,4-Trimethylbenzene (14.903)
-sec-Butylbenzene (15.068)
-1,3-Dichlorobenzene (15.404)
1,4-Dichlorobenzene-D4 (15.518)+
-N-Butylbenzene (15.968)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.218)
-Hexachlorobutadiene (18.727)+
-Naphthalene (19.356)
-1,2,3-Trichlorobenzene (19.685)
-Xylenes (total) (21.380)
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Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0795A.D
Report Date: 21-Jan-2015 13:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122914B.b\C0795A.D
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Inj Date : 29-DEC-2014 17:05
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157320-1
Misc Info :
Comment :
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Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 17:05 Cal File: C0795.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

WAS
1:46 pm, Jan 21, 2015

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.994	1.993	(0.248)	7106	1.00000	1.1	
2	Chloromethane	50	2.237	2.229	(0.278)	11966	1.00000	1.4	
3	Vinyl chloride	62	2.330	2.329	(0.290)	6946	1.00000	1.0	
4	Bromomethane	94	2.730	2.729	(0.340)	3097	1.00000	1.1	
5	Chloroethane	64	2.888	2.879	(0.359)	3430	1.00000	1.2	
6	Trichlorofluoromethane	101	3.066	3.058	(0.381)	10514	1.00000	1.2	
7	Diethyl Ether	59	3.495	3.494	(0.435)	4169	1.00000	1.2	
8	Tertiary-butyl alcohol	59	5.346	5.353	(0.665)	1595	5.00000	4.2(aM)	M9
9	1,1-Dichloroethene	96	3.752	3.751	(0.467)	4383	1.00000	1.1	
10	Carbon Disulfide	76	3.788	3.787	(0.471)	13612	1.00000	1.1	
11	Freon-113	151	3.810	3.809	(0.474)	3088	1.00000	1.1	
12	Iodomethane	142	3.967	3.959	(0.493)	2915	1.00000	1.1	
13	Acrolein	56	4.274	4.266	(0.532)	3995	5.00000	5.1	
14	Methylene Chloride	84	4.653	4.652	(0.579)	7106	1.00000	1.3(a)	
15	Acetone	43	4.760	4.752	(0.592)	9543	5.00000	4.4(a)	
16	Isobutyl Alcohol	43	8.263	8.255	(1.028)	2932	20.0000	16.3(aM)	M9
17	trans-1,2-Dichloroethene	96	4.925	4.917	(0.612)	4812	1.00000	1.0(M)	M9
18	Allyl Chloride	41	4.474	4.473	(0.556)	6791	1.00000	0.88(a)	
19	Methyl tert-butyl ether	73	5.132	5.131	(0.638)	19796	2.00000	1.8	
20	Acetonitrile	39	5.568	5.546	(0.692)	2728	10.0000	13.5(aM)	M9
21	Di-isopropyl ether	45	5.790	5.789	(0.720)	11781	1.00000	0.83(a)	
22	Chloroprene	53	5.918	5.910	(0.736)	5558	1.00000	0.78(a)	
23	Propionitrile	54	7.977	7.969	(0.992)	7103	10.0000	7.7(a)	
24	Methacrylonitrile	41	7.991	7.990	(0.994)	33721	10.0000	9.5(a)	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0795A.D
Report Date: 21-Jan-2015 13:20

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.947	5.953	(0.740)	9165	1.00000	1.0	
	26 Acrylonitrile	52	6.061	6.046	(0.754)	8654	5.00000	4.5(a)	
	27 Ethyl tertiary-butyl ether	59	6.354	6.353	(0.790)	9630	1.00000	0.85(a)	
	28 Vinyl Acetate	43	6.390	6.375	(0.734)	8807	1.00000	0.77(aM)	M6
	29 cis-1,2-Dichloroethene	96	6.776	6.761	(0.843)	5343	1.00000	1.1(M)	M9
M	30 1,2-Dichloroethylene (total)	96				10155	1.00000	(a)	
	31 Methyl Methacrylate	41	9.571	9.570	(1.099)	2434	1.00000	0.59(a)	
	32 2,2-Dichloropropane	77	6.912	6.911	(0.860)	6532	1.00000	0.96(a)	
	33 Bromochloromethane	128	7.041	7.040	(0.876)	2463	1.00000	1.1	
	34 Chloroform	83	7.162	7.154	(0.891)	10387	1.00000	1.2	
	35 Carbon Tetrachloride	117	7.326	7.318	(0.842)	5726	1.00000	0.91(a)	
	36 Tetrahydrofuran	42	7.376	7.361	(0.917)	5867	5.00000	3.3(a)	
$	37 Dibromofluoromethane	113	7.398	7.404	(0.920)	3980	1.00000	0.89(a)	
	38 1,1,1-Trichloroethane	97	7.419	7.418	(0.923)	7600	1.00000	0.96(a)	
	39 1,1-Dichloropropene	75	10.872	10.871	(1.249)	5148	1.00000	0.79(a)	
	40 2-Butanone	43	7.598	7.583	(0.945)	9761	5.00000	3.4(a)	
	41 Benzene	78	7.913	7.912	(0.909)	19296	1.00000	1.0	
*	42 Pentafluorobenzene	168	8.041	8.039	(1.000)	466777	50.0000		
	43 Cyclohexane	56	7.026	7.025	(0.874)	7010	1.00000	0.88(a)	
	44 Ethyl Methacrylate	69	11.072	11.057	(1.272)	3095	1.00000	0.56(a)	
$	45 1,2-Dichloroethane-D4	65	8.091	8.090	(1.006)	5933	1.00000	1.0	
	46 Tertiary-amyl methyl ether	73	8.084	8.083	(1.005)	8301	1.00000	0.85(a)	
	47 1,2-Dichloroethane	62	8.184	8.176	(0.940)	7888	1.00000	1.2	
	48 Trichloroethene	95	8.656	8.654	(0.994)	4936	1.00000	1.0	
*	49 1,4-Difluorobenzene	114	8.706	8.705	(1.000)	783040	50.0000		
	50 Dibromomethane	93	9.171	9.162	(1.053)	3209	1.00000	1.1	
	51 1,2-Dichloropropane	63	9.292	9.284	(1.067)	4340	1.00000	0.90(aM)	M6
	52 Bromodichloromethane	83	9.364	9.370	(1.076)	6070	1.00000	0.95(a)	
	53 cis-1,3-dichloropropene	75	10.114	10.113	(1.162)	6578	1.00000	0.86(a)	
	54 1,4-Dioxane	88	9.614	9.613	(1.104)	2177	20.0000	27.5	
$	55 Toluene-D8	98	10.321	10.320	(1.186)	13109	1.00000	0.82(a)	
	56 2-Chloroethylvinylether	63	10.057	10.049	(1.155)	1055	1.00000	0.53(a)	
	57 Toluene	92	10.379	10.378	(1.192)	11348	1.00000	0.97(a)	
	58 4-methyl-2-pentanone	43	10.836	10.828	(1.245)	18551	5.00000	3.4(a)	
	59 Tetrachloroethene	164	10.822	10.821	(0.888)	3358	1.00000	0.82(a)	
	60 trans-1,3-Dichloropropene	75	10.872	10.871	(1.249)	5148	1.00000	0.79(a)	
	61 1,1,2-Trichloroethane	83	11.065	11.057	(1.271)	3837	1.00000	1.0	
	62 Dibromochloromethane	129	11.272	11.271	(0.925)	4236	1.00000	0.90(a)	
	63 1,3-Dichloropropane	76	11.387	11.385	(0.934)	7845	1.00000	1.0	
	64 1,2-Dibromoethane	107	11.558	11.557	(1.328)	5166	1.00000	1.1(M)	M6
	65 2-Hexanone	43	11.844	11.836	(0.972)	12937	5.00000	3.2(a)	
*	66 Chlorobenzene-D5	117	12.187	12.193	(1.000)	796405	50.0000		
	67 Chlorobenzene	112	12.216	12.215	(1.002)	15952	1.00000	1.1	
	152 1-Chlorohexane	91	12.187	12.186	(1.000)	7758	1.00000	1.0	
	68 Ethylbenzene	106	12.244	12.250	(1.005)	6931	1.00000	0.94(a)	
	69 1,1,1,2-Tetrachloroethane	131	12.294	12.293	(1.009)	3633	1.00000	0.78(a)	
M	70 Xylenes (total)	106				22394	5.00000	(a)	
	71 m+p-Xylenes	106	12.437	12.436	(1.021)	15389	2.00000	1.6(a)	
	72 o-Xylene	106	13.009	13.008	(1.067)	7005	1.00000	0.77(a)	
	73 Styrene	104	13.081	13.080	(1.073)	9687	1.00000	0.67(a)	
	74 Bromoform	173	13.116	13.115	(1.076)	2206	1.00000	0.74(aM)	M6
	75 Isopropylbenzene	105	13.438	13.437	(0.866)	19810	1.00000	0.85(a)	
$	76 P-Bromofluorobenzene	95	13.845	13.837	(1.590)	6105	1.00000	0.89(a)	
	77 cis-1,4-Dichloro-2-Butene	53	13.946	13.937	(0.899)	1848	1.00000	0.82(a)	

WAS

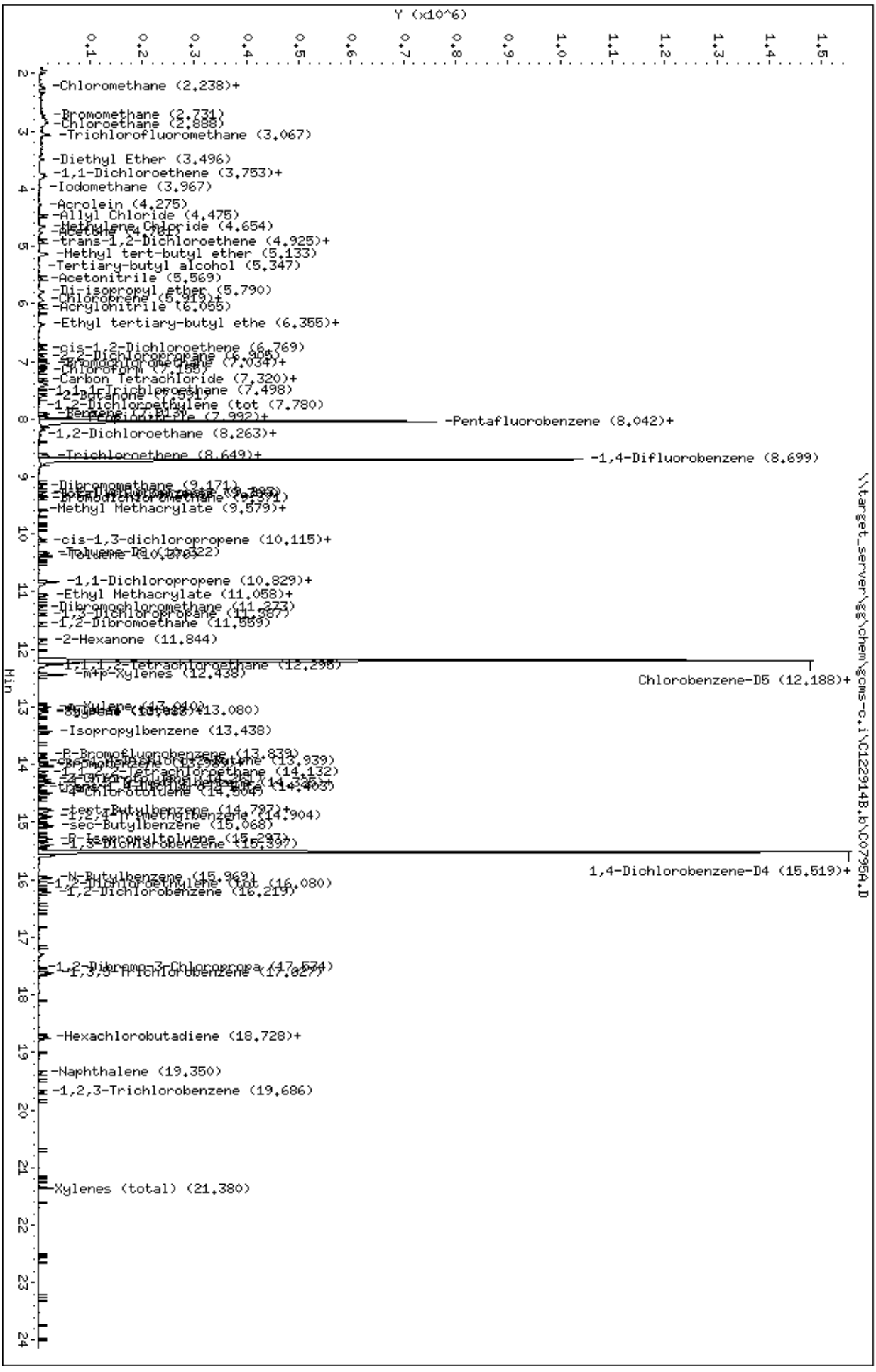
1:46 pm, Jan 21, 2015

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0795A.D
Report Date: 21-Jan-2015 13:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.396	14.402	(0.928)	1256	1.00000	0.70(a)	
79	Bromobenzene	156	13.988	13.987	(0.901)	5421	1.00000	0.97(a)	
80	N-Propylbenzene	91	14.031	14.030	(0.904)	25398	1.00000	0.85(a)	
81	1,1,2,2-Tetrachloroethane	83	14.138	14.137	(0.911)	7407	1.00000	1.1	
82	1,3,5-Trimethylbenzene	105	14.317	14.316	(0.923)	14870	1.00000	0.75(a)	
83	2-Chlorotoluene	91	14.260	14.252	(0.919)	16224	1.00000	0.90(a)	
84	1,2,3-Trichloropropane	75	14.339	14.330	(0.924)	5903	1.00000	1.0	
85	4-Chlorotoluene	91	14.503	14.502	(0.935)	16776	1.00000	0.92(a)	
86	tert-Butylbenzene	119	14.796	14.795	(0.953)	16429	1.00000	0.80(a)	
87	Pentachloroethane	117	14.825	14.824	(0.955)	3690	1.00000	0.92(a)	
88	1,2,4-Trimethylbenzene	105	14.903	14.902	(0.960)	15874	1.00000	0.81(a)	
89	P-Isopropyltoluene	119	15.296	15.295	(0.986)	16365	1.00000	0.75(a)	
90	1,3-Dichlorobenzene	146	15.404	15.403	(0.993)	11684	1.00000	1.0	
* 91	1,4-Dichlorobenzene-D4	152	15.518	15.517	(1.000)	417529	50.0000		***1:46 pm, Jan 21, 2015***
92	1,4-Dichlorobenzene	146	15.540	15.546	(1.001)	13478	1.00000	1.2	
93	N-Butylbenzene	91	15.968	15.967	(1.029)	17081	1.00000	0.80(a)	
94	sec-Butylbenzene	105	15.068	15.067	(0.971)	22944	1.00000	0.83(a)	
95	1,2-Dichlorobenzene	146	16.219	16.218	(1.045)	9378	1.00000	0.91(a)	
96	1,2-Dibromo-3-Chloropropane	75	17.570	17.569	(1.132)	1251	1.00000	1.1	
97	1,3,5-Trichlorobenzene	180	17.627	17.626	(1.136)	7460	1.00000	0.98(a)	
98	Hexachlorobutadiene	225	18.728	18.726	(1.207)	4290	1.00000	1.2	
99	1,2,4-Trichlorobenzene	180	18.763	18.762	(1.209)	4799	1.00000	0.87(a)	
100	1,2,3-Trimethylbenzene	105	15.582	15.589	(1.004)	18435	1.00000	0.96(a)	
101	Naphthalene	128	19.357	19.348	(1.247)	6711	1.00000	0.56(a)	
102	1,2,3-Trichlorobenzene	180	19.685	19.684	(1.269)	4296	1.00000	1.0	
103	Methyl Acetate	43	4.989	4.974	(0.620)	5222	1.00000	1.2(M)	M9
104	Methylcyclohexane	83	8.627	8.625	(1.073)	6236	1.00000	0.84(a)	
M 153	Total Alkylbenzenes	100				148771	1.00000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
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Y (x10^6)
Min
-Chloromethane (2.238)+
-Bromomethane (2.731)
-Chloroethane (2.888)
-Trichlorofluoromethane (3.067)
-Diethyl Ether (3.496)
-1,1-Dichloroethene (3.753)+
-Iodomethane (3.967)
-Acrolein (4.275)
-Allyl Chloride (4.475)
-Methylene Chloride (4.654)
-trans-1,2-Dichloroethene (4.925)+
-Methyl tert-butyl ether (5.133)
-Tertiary-butyl alcohol (5.347)
-Acetonitrile (5.569)
-Di-isopropyl ether (5.790)
-Acrylonitrile (6.055)
-Ethyl tertiary-butyl ethe (6.355)+
-cis-1,2-Dichloroethene (6.769)
-Chloroform (7.156)
-Carbon Tetrachloride (7.320)+
-1,2-Dichloroethylene (tot (7.780)
-1,2-Dichloroethane (8.263)+
-Trichloroethene (8.649)+
-Pentafluorobenzene (8.042)+
-1,4-Difluorobenzene (8.699)
-Dibromomethane (9.171)
-Methyl Methacrylate (9.579)+
-cis-1,3-dichloropropene (10.115)+
-1,1-Dichloropropene (10.829)+
-Ethyl Methacrylate (11.058)+
-Dibromochloromethane (11.273)
-1,2-Dibromoethane (11.559)
-2-Hexanone (11.844)
-1,1,1,2-Tetrachloroethane (12.295)
-m+p-Xylenes (12.438)
Chlorobenzene-D5 (12.188)+
-Isopropylbenzene (13.438)
-Bromobenzene (13.939)
-1,1,2,2-Tetrachloroethane (14.132)
-n-Propylbenzene (14.403)
-tert-Butylbenzene (14.797)+
-sec-Butylbenzene (15.068)
-1,3-Dichlorobenzene (15.397)
1,4-Dichlorobenzene-D4 (15.519)+
-N-Butylbenzene (15.969)
-1,2-Dichlorobenzene (16.219)
-1,2-Dibromo-3-Chloroprop (17.574)
-1,2,4-Trichlorobenzene (17.827)
-Hexachlorobutadiene (18.728)+
-Naphthalene (19.350)
-1,2,3-Trichlorobenzene (19.686)
-Xylenes (total) (21.380)

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0796A.D
Report Date: 21-Jan-2015 13:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122914B.b\C0796A.D
Lab Smp Id: WG157320-6 Client Smp ID: Initial Calibration
Inj Date : 29-DEC-2014 17:37
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157320-6
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-c.i\C122914B.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 17:37 Cal File: C0796.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.994	1.993	(0.248)	1377863	200.000	171	
2	Chloromethane	50	2.229	2.229	(0.277)	1747325	200.000	153	
3	Vinyl chloride	62	2.329	2.329	(0.289)	1331717	200.000	168	
4	Bromomethane	94	2.730	2.729	(0.339)	803748	200.000	235(A)	
5	Chloroethane	64	2.880	2.879	(0.358)	497634	200.000	140	
6	Trichlorofluoromethane	101	3.051	3.058	(0.379)	1959886	200.000	177	
7	Diethyl Ether	59	3.502	3.494	(0.435)	795158	200.000	179	
8	Tertiary-butyl alcohol	59	5.375	5.353	(0.668)	516580	1000.00	1180(A)	
9	1,1-Dichloroethene	96	3.752	3.751	(0.466)	1059304	200.000	214(A)	
10	Carbon Disulfide	76	3.781	3.787	(0.470)	2943600	200.000	194	
11	Freon-113	151	3.809	3.809	(0.473)	668759	200.000	192	
12	Iodomethane	142	3.959	3.959	(0.492)	678167	200.000	207(A)	
13	Acrolein	56	4.281	4.266	(0.532)	983504	1000.00	1050(A)	
14	Methylene Chloride	84	4.653	4.652	(0.578)	1214979	200.000	174	
15	Acetone	43	4.767	4.752	(0.592)	2337071	1000.00	933	
16	Isobutyl Alcohol	43	8.269	8.255	(1.028)	1092313	4000.00	5350(A)	
17	trans-1,2-Dichloroethene	96	4.917	4.917	(0.611)	1094843	200.000	197	
18	Allyl Chloride	41	4.481	4.473	(0.557)	1491319	200.000	167	
19	Methyl tert-butyl ether	73	5.139	5.131	(0.639)	5050983	400.000	399	
20	Acetonitrile	39	5.553	5.546	(0.690)	452121	2000.00	1730	
21	Di-isopropyl ether	45	5.789	5.789	(0.719)	3346225	200.000	207(A)	
22	Chloroprene	53	5.911	5.910	(0.734)	1658138	200.000	208(A)	
23	Propionitrile	54	7.991	7.969	(0.993)	1880766	2000.00	1820	
24	Methacrylonitrile	41	8.005	7.990	(0.995)	5470116	2000.00	1310	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0796A.D
Report Date: 21-Jan-2015 13:20

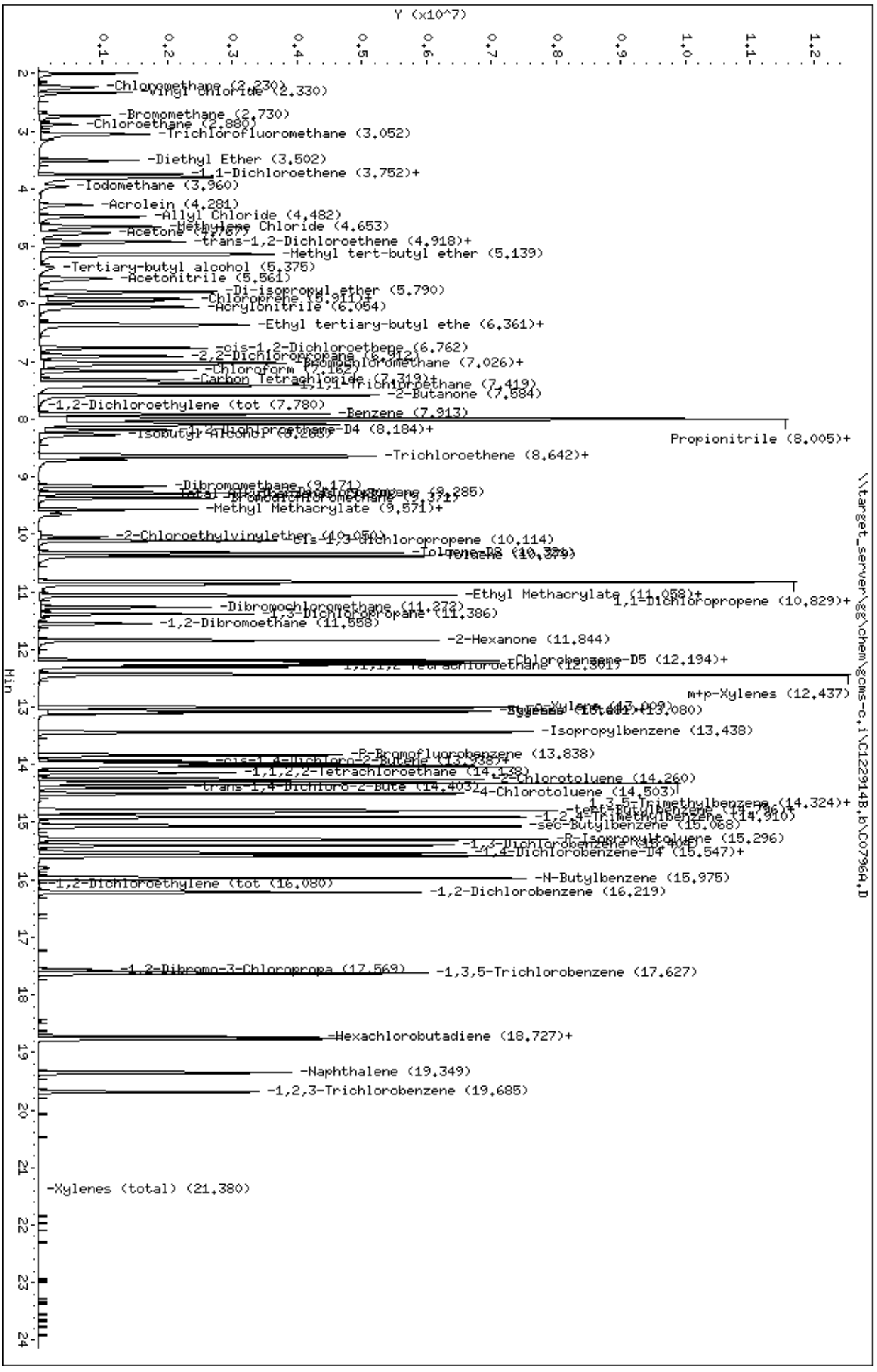
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.953	5.953	(0.740)	2007064	200.000	187	
	26 Acrylonitrile	52	6.054	6.046	(0.752)	2184782	1000.00	981	
	27 Ethyl tertiary-butyl ether	59	6.354	6.353	(0.790)	2864616	200.000	220(A)	
	28 Vinyl Acetate	43	6.375	6.375	(0.732)	2750063	200.000	223(A)	
	29 cis-1,2-Dichloroethene	96	6.761	6.761	(0.840)	1212634	200.000	203(A)	
M	30 1,2-Dichloroethylene (total)	96				2307477	200.000	(a)	
	31 Methyl Methacrylate	41	9.570	9.570	(1.099)	1103346	200.000	260(A)	
	32 2,2-Dichloropropane	77	6.911	6.911	(0.859)	1630443	200.000	203(A)	
	33 Bromochloromethane	128	7.047	7.040	(0.876)	491560	200.000	178	
	34 Chloroform	83	7.162	7.154	(0.890)	1982499	200.000	178	
	35 Carbon Tetrachloride	117	7.319	7.318	(0.841)	1514104	200.000	215(A)	
	36 Tetrahydrofuran	42	7.362	7.361	(0.915)	2010374	1000.00	1040(A)	
$	37 Dibromofluoromethane	113	7.405	7.404	(0.920)	1073502	200.000	208(A)	
	38 1,1,1-Trichloroethane	97	7.419	7.418	(0.922)	1844675	200.000	198	
	39 1,1-Dichloropropene	75	10.871	10.871	(1.249)	1650918	200.000	234(A)	
	40 2-Butanone	43	7.583	7.583	(0.942)	3064078	1000.00	973	
	41 Benzene	78	7.912	7.912	(0.909)	3882996	200.000	177	
*	42 Pentafluorobenzene	168	8.048	8.039	(1.000)	555639	50.0000		
	43 Cyclohexane	56	7.019	7.025	(0.872)	1827461	200.000	198	
	44 Ethyl Methacrylate	69	11.064	11.057	(1.271)	1444165	200.000	258(A)	
$	45 1,2-Dichloroethane-D4	65	8.098	8.090	(1.006)	1223760	200.000	179	
	46 Tertiary-amyl methyl ether	73	8.084	8.083	(1.004)	2495688	200.000	223(A)	
	47 1,2-Dichloroethane	62	8.184	8.176	(0.940)	1499905	200.000	184	
	48 Trichloroethene	95	8.655	8.654	(0.994)	1113761	200.000	197	
*	49 1,4-Difluorobenzene	114	8.705	8.705	(1.000)	896708	50.0000		
	50 Dibromomethane	93	9.163	9.162	(1.053)	706758	200.000	202(A)	
	51 1,2-Dichloropropane	63	9.284	9.284	(1.067)	1090367	200.000	203(A)	
	52 Bromodichloromethane	83	9.370	9.370	(1.076)	1595110	200.000	220(A)	
	53 cis-1,3-dichloropropene	75	10.114	10.113	(1.162)	1869546	200.000	221(A)	
	54 1,4-Dioxane	88	9.613	9.613	(1.104)	250885	4000.00	2530	
$	55 Toluene-D8	98	10.321	10.320	(1.186)	3256071	200.000	186	
	56 2-Chloroethylvinylether	63	10.049	10.049	(1.154)	386731	200.000	193	
	57 Toluene	92	10.378	10.378	(1.192)	2619922	200.000	196	
	58 4-methyl-2-pentanone	43	10.836	10.828	(1.245)	4628547	1000.00	814	
	59 Tetrachloroethene	164	10.821	10.821	(0.887)	1152797	200.000	237(A)	
	60 trans-1,3-Dichloropropene	75	10.871	10.871	(1.249)	1650918	200.000	234(A)	
	61 1,1,2-Trichloroethane	83	11.057	11.057	(1.270)	867777	200.000	202(A)	
	62 Dibromochloromethane	129	11.272	11.271	(0.924)	1321424	200.000	233(A)	
	63 1,3-Dichloropropane	76	11.386	11.385	(0.934)	1757403	200.000	183	
	64 1,2-Dibromoethane	107	11.558	11.557	(1.328)	1145917	200.000	212(A)	
	65 2-Hexanone	43	11.843	11.836	(0.971)	3916905	1000.00	863	
*	66 Chlorobenzene-D5	117	12.194	12.193	(1.000)	988817	50.0000		
	67 Chlorobenzene	112	12.215	12.215	(1.002)	3046861	200.000	166	
	152 1-Chlorohexane	91	12.187	12.186	(0.999)	1852602	200.000	201(A)	
	68 Ethylbenzene	106	12.251	12.250	(1.005)	1775693	200.000	196	
	69 1,1,1,2-Tetrachloroethane	131	12.301	12.293	(1.009)	1238686	200.000	226(A)	
M	70 Xylenes (total)	106				6314674	600.000	(a)	
	71 m+p-Xylenes	106	12.444	12.436	(1.021)	4092889	400.000	366	
	72 o-Xylene	106	13.009	13.008	(1.067)	2221785	200.000	209(A)	
	73 Styrene	104	13.080	13.080	(1.073)	3292777	200.000	201(A)	
	74 Bromoform	173	13.116	13.115	(1.076)	950782	200.000	276(A)	
	75 Isopropylbenzene	105	13.437	13.437	(0.866)	4886160	200.000	171	
$	76 P-Bromofluorobenzene	95	13.838	13.837	(1.590)	1605591	200.000	209(A)	
	77 cis-1,4-Dichloro-2-Butene	53	13.938	13.937	(0.898)	609275	200.000	223(A)	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0796A.D
Report Date: 21-Jan-2015 13:20

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78	trans-1,4-Dichloro-2-Butene	53	14.402	14.402	(0.928)	482473	200.000	229(A)	
	79	Bromobenzene	156	13.988	13.987	(0.901)	1476089	200.000	210(A)	
	80	N-Propylbenzene	91	14.031	14.030	(0.904)	5429840	200.000	149	
	81	1,1,2,2-Tetrachloroethane	83	14.138	14.137	(0.911)	1584496	200.000	181	
	82	1,3,5-Trimethylbenzene	105	14.324	14.316	(0.923)	4252334	200.000	179	
	83	2-Chlorotoluene	91	14.259	14.252	(0.919)	3779024	200.000	170	
	84	1,2,3-Trichloropropane	75	14.338	14.330	(0.924)	1298827	200.000	180	
	85	4-Chlorotoluene	91	14.502	14.502	(0.934)	3799027	200.000	168	
	86	tert-Butylbenzene	119	14.796	14.795	(0.953)	4784462	200.000	192	
	87	Pentachloroethane	117	14.824	14.824	(0.955)	1148694	200.000	230(A)	
	88	1,2,4-Trimethylbenzene	105	14.910	14.902	(0.960)	4146737	200.000	175	
	89	P-Isopropyltoluene	119	15.303	15.295	(0.986)	4634937	200.000	178	
	90	1,3-Dichlorobenzene	146	15.403	15.403	(0.992)	2751719	200.000	188	
*	91	1,4-Dichlorobenzene-D4	152	15.525	15.517	(1.000)	530523	50.0000		
	92	1,4-Dichlorobenzene	146	15.546	15.546	(1.001)	2670183	200.000	179	
	93	N-Butylbenzene	91	15.975	15.967	(1.029)	4313214	200.000	167	
	94	sec-Butylbenzene	105	15.074	15.067	(0.971)	5310170	200.000	158	
	95	1,2-Dichlorobenzene	146	16.218	16.218	(1.045)	2574407	200.000	201(A)	
	96	1,2-Dibromo-3-Chloropropane	75	17.569	17.569	(1.132)	331338	200.000	230(A)	
	97	1,3,5-Trichlorobenzene	180	17.626	17.626	(1.135)	2046863	200.000	212(A)	
	98	Hexachlorobutadiene	225	18.727	18.726	(1.206)	902347	200.000	194	
	99	1,2,4-Trichlorobenzene	180	18.763	18.762	(1.209)	1587937	200.000	235(A)	
	100	1,2,3-Trimethylbenzene	105	15.589	15.589	(1.004)	4073730	200.000	168	
	101	Naphthalene	128	19.349	19.348	(1.246)	3418486	200.000	253(A)	
	102	1,2,3-Trichlorobenzene	180	19.685	19.684	(1.268)	1190217	200.000	220(A)	
	103	Methyl Acetate	43	4.981	4.974	(0.619)	1106800	200.000	208(A)	
	104	Methylcyclohexane	83	8.634	8.625	(1.073)	1888798	200.000	223(A)	
M	153	Total Alkylbenzenes	100				37757854	200.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.


Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0796A.D
Date : 29-DEC-2014 17:37
Client ID: Initial Calibration
Sample Info: WG157320-6
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
Y (x10^7)
Min
-Chloromethane (2.230)
-Vinyl chloride (2.330)
-Bromomethane (2.730)
-Chloroethane (2.880)
-Trichlorofluoromethane (3.052)
-Diethyl Ether (3.502)
-1,1-Dichloroethene (3.752)+
-Iodomethane (3.960)
-Acrolein (4.281)
-Allyl Chloride (4.482)
-Methylene Chloride (4.653)
-Acetone (4.767)
-trans-1,2-Dichloroethene (4.918)+
-Methyl tert-butyl ether (5.139)
-Tertiary-butyl alcohol (5.375)
-Acetonitrile (5.561)
-Di-isopropyl ether (5.790)
-Chloroprene (6.011)+
-Acrylonitrile (6.054)
-Ethyl tertiary-butyl ethe (6.361)+
-cis-1,2-Dichloroethene (6.762)
-2,2-Dichloropropane (6.912)
-Bromochloromethane (7.026)+
-Chloroform (7.162)
-Carbon Tetrachloride (7.319)+
-1,1,1-Trichloroethane (7.419)
-2-Butanone (7.584)
-1,2-Dichloroethylene (tot (7.780)
-Benzene (7.913)
-1,2-Dichloroethane-D4 (8.184)+
-Isobutyl alcohol (8.285)
Propionitrile (8.005)+
-Trichloroethene (8.642)+
-Dibromomethane (9.171)
-Methyl Methacrylate (9.571)+
-2-Chloroethylvinylether (10.050)
cis-1,3-Dichloropropene (10.114)
-Toluene-D8 (10.324)
-Toluene (10.379)
-Ethyl Methacrylate (11.058)+
1,1-Dichloropropene (10.829)+
-Dibromochloromethane (11.272)
-1,3-Dichloropropane (11.386)
-1,2-Dibromoethane (11.558)
-2-Hexanone (11.844)
-Chlorobenzene-D5 (12.194)+
-1,1,1,2-Tetrachloroethane (12.301)
m+p-Xylenes (12.437)
-Styrene (13.080)+
-Isopropylbenzene (13.438)
-P-Bromofluorobenzene (13.838)
-cis-1,4-Dichloro-2-Butene (13.938)+
-1,1,2,2-Tetrachloroethane (14.138)
-2-Chlorotoluene (14.260)
-trans-1,4-Dichloro-2-Bute (14.403)
-4-Chlorotoluene (14.503)
-1,3,5-Trimethylbenzene (14.324)+
-tert-Butylbenzene (14.796)+
-1,2,4-Trimethylbenzene (14.910)
-sec-Butylbenzene (15.068)
-P-Isopropyltoluene (15.296)
-1,3-Dichlorobenzene (15.414)
-1,4-Dichlorobenzene-D4 (15.547)+
-N-Butylbenzene (15.975)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.219)
-1,2-Dibromo-3-Chloropropa (17.569)
-1,3,5-Trichlorobenzene (17.627)
-Hexachlorobutadiene (18.727)+
-Naphthalene (19.349)
-1,2,3-Trichlorobenzene (19.685)
-Xylenes (total) (21.380)
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Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0797A.D
Report Date: 21-Jan-2015 13:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122914B.b\C0797A.D
Lab Smp Id: WG157320-5 Client Smp ID: Initial Calibration
Inj Date : 29-DEC-2014 18:10
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157320-5
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-c.i\C122914B.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 18:10 Cal File: C0797.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.989	1.993	(0.247)	742695	100.000	90.5	
2	Chloromethane	50	2.232	2.229	(0.278)	944002	100.000	82.7	
3	Vinyl chloride	62	2.325	2.329	(0.289)	713466	100.000	88.5	
4	Bromomethane	94	2.725	2.729	(0.339)	431582	100.000	116	
5	Chloroethane	64	2.882	2.879	(0.358)	255531	100.000	73.0	
6	Trichlorofluoromethane	101	3.047	3.058	(0.379)	1030583	100.000	90.8	
7	Diethyl Ether	59	3.497	3.494	(0.435)	433570	100.000	95.0	
8	Tertiary-butyl alcohol	59	5.355	5.353	(0.666)	309556	500.000	651	
9	1,1-Dichloroethene	96	3.747	3.751	(0.466)	535634	100.000	101	
10	Carbon Disulfide	76	3.783	3.787	(0.470)	1610445	100.000	102	
11	Freon-113	151	3.804	3.809	(0.473)	345102	100.000	95.0	
12	Iodomethane	142	3.962	3.959	(0.493)	404246	100.000	117	
13	Acrolein	56	4.276	4.266	(0.532)	522286	500.000	525	
14	Methylene Chloride	84	4.648	4.652	(0.578)	639160	100.000	89.3	
15	Acetone	43	4.762	4.752	(0.592)	1246396	500.000	480	
16	Isobutyl Alcohol	43	8.258	8.255	(1.027)	601310	2000.00	2630	
17	trans-1,2-Dichloroethene	96	4.912	4.917	(0.611)	573610	100.000	98.7	
18	Allyl Chloride	41	4.476	4.473	(0.557)	935898	100.000	103	
19	Methyl tert-butyl ether	73	5.134	5.131	(0.638)	2859770	200.000	215	
20	Acetonitrile	39	5.548	5.546	(0.690)	239133	1000.00	894	
21	Di-isopropyl ether	45	5.784	5.789	(0.719)	1864402	100.000	109	
22	Chloroprene	53	5.906	5.910	(0.734)	897621	100.000	106	
23	Propionitrile	54	7.972	7.969	(0.991)	1080531	1000.00	1020	
24	Methacrylonitrile	41	7.993	7.990	(0.994)	3499106	1000.00	855	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0797A.D
Report Date: 21-Jan-2015 13:20

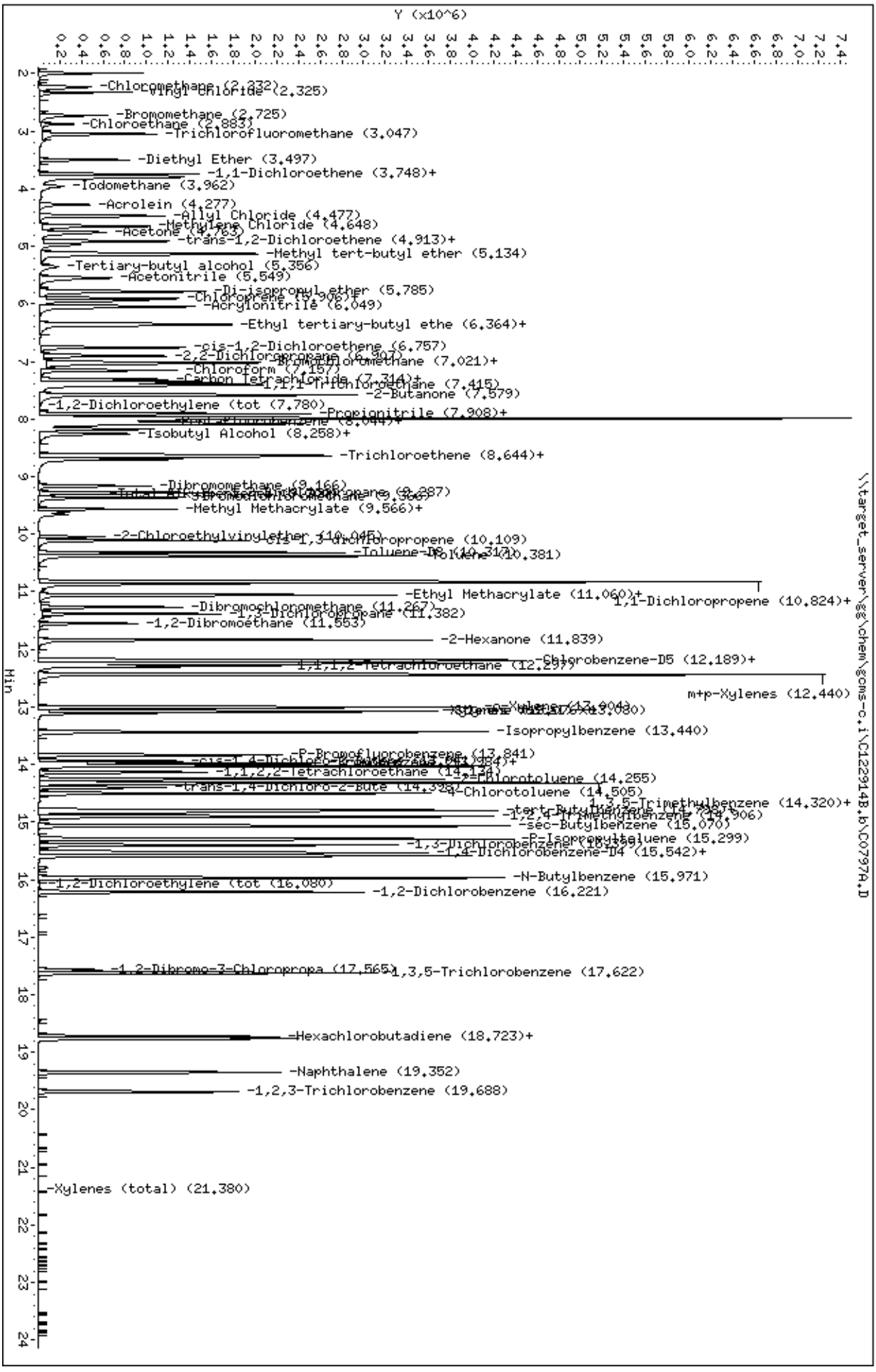
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.949	5.953	(0.740)	1075925	100.000	96.8	
	26 Acrylonitrile	52	6.049	6.046	(0.752)	1187619	500.000	510	
	27 Ethyl tertiary-butyl ether	59	6.349	6.353	(0.789)	1573856	100.000	113	
	28 Vinyl Acetate	43	6.370	6.375	(0.732)	1480115	100.000	114	
	29 cis-1,2-Dichloroethene	96	6.756	6.761	(0.840)	644488	100.000	102	
M	30 1,2-Dichloroethylene (total)	96				1218098	100.000	(a)	
	31 Methyl Methacrylate	41	9.566	9.570	(1.099)	599958	100.000	130	
	32 2,2-Dichloropropane	77	6.907	6.911	(0.859)	866392	100.000	102	
	33 Bromochloromethane	128	7.042	7.040	(0.876)	258211	100.000	91.0	
	34 Chloroform	83	7.157	7.154	(0.890)	1067660	100.000	93.5	
	35 Carbon Tetrachloride	117	7.314	7.318	(0.841)	808172	100.000	110	
	36 Tetrahydrofuran	42	7.357	7.361	(0.915)	1105892	500.000	540	
$	37 Dibromofluoromethane	113	7.400	7.404	(0.920)	522968	100.000	95.5	
	38 1,1,1-Trichloroethane	97	7.414	7.418	(0.922)	991440	100.000	102	
	39 1,1-Dichloropropene	75	10.867	10.871	(1.249)	868182	100.000	116	
	40 2-Butanone	43	7.578	7.583	(0.942)	1728959	500.000	525	
	41 Benzene	78	7.907	7.912	(0.909)	2228203	100.000	101	
*	42 Pentafluorobenzene	168	8.043	8.039	(1.000)	583747	50.0000		
	43 Cyclohexane	56	7.021	7.025	(0.873)	979298	100.000	101	
	44 Ethyl Methacrylate	69	11.060	11.057	(1.271)	765660	100.000	126	
$	45 1,2-Dichloroethane-D4	65	8.093	8.090	(1.006)	609460	100.000	86.6	
	46 Tertiary-amyl methyl ether	73	8.079	8.083	(1.004)	1353400	100.000	112	
	47 1,2-Dichloroethane	62	8.179	8.176	(0.940)	780783	100.000	94.8	
	48 Trichloroethene	95	8.651	8.654	(0.994)	592696	100.000	102	
*	49 1,4-Difluorobenzene	114	8.701	8.705	(1.000)	922193	50.0000		
	50 Dibromomethane	93	9.165	9.162	(1.053)	374245	100.000	104	
	51 1,2-Dichloropropane	63	9.287	9.284	(1.067)	576601	100.000	104	
	52 Bromodichloromethane	83	9.365	9.370	(1.076)	831073	100.000	109	
	53 cis-1,3-dichloropropene	75	10.109	10.113	(1.162)	993996	100.000	112	
	54 1,4-Dioxane	88	9.608	9.613	(1.104)	221811	2000.00	2350	
$	55 Toluene-D8	98	10.323	10.320	(1.186)	1776127	100.000	100	
	56 2-Chloroethylvinylether	63	10.045	10.049	(1.154)	231236	100.000	113	
	57 Toluene	92	10.380	10.378	(1.193)	1452341	100.000	106	
	58 4-methyl-2-pentanone	43	10.831	10.828	(1.245)	2905529	500.000	516	
	59 Tetrachloroethene	164	10.824	10.821	(0.888)	559653	100.000	115	
	60 trans-1,3-Dichloropropene	75	10.867	10.871	(1.249)	868182	100.000	116	
	61 1,1,2-Trichloroethane	83	11.060	11.057	(1.271)	461366	100.000	104	
	62 Dibromochloromethane	129	11.267	11.271	(0.924)	665191	100.000	117	
	63 1,3-Dichloropropane	76	11.381	11.385	(0.934)	938418	100.000	103	
	64 1,2-Dibromoethane	107	11.553	11.557	(1.328)	594721	100.000	106	
	65 2-Hexanone	43	11.839	11.836	(0.971)	2294341	500.000	538	
*	66 Chlorobenzene-D5	117	12.189	12.193	(1.000)	955544	50.0000		
	67 Chlorobenzene	112	12.210	12.215	(1.002)	1679700	100.000	98.1	
	152 1-Chlorohexane	91	12.182	12.186	(0.999)	975940	100.000	101	
	68 Ethylbenzene	106	12.246	12.250	(1.005)	932748	100.000	107	
	69 1,1,1,2-Tetrachloroethane	131	12.296	12.293	(1.009)	621878	100.000	114	
M	70 Xylenes (total)	106				3475168	300.000	(a)	
	71 m+p-Xylenes	106	12.439	12.436	(1.021)	2287295	200.000	215	
	72 o-Xylene	106	13.004	13.008	(1.067)	1187873	100.000	114	
	73 Styrene	104	13.082	13.080	(1.073)	1829881	100.000	115	
	74 Bromoform	173	13.118	13.115	(1.076)	470399	100.000	131	
	75 Isopropylbenzene	105	13.440	13.437	(0.866)	2892640	100.000	103	
$	76 P-Bromofluorobenzene	95	13.833	13.837	(1.590)	804934	100.000	101	
	77 cis-1,4-Dichloro-2-Butene	53	13.940	13.937	(0.898)	310260	100.000	110	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0797A.D
Report Date: 21-Jan-2015 13:20

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.398	14.402	(0.928)	253995	100.000	116	
	79 Bromobenzene	156	13.983	13.987	(0.901)	769998	100.000	107	
	80 N-Propylbenzene	91	14.026	14.030	(0.904)	3394178	100.000	96.6	
	81 1,1,2,2-Tetrachloroethane	83	14.133	14.137	(0.911)	857529	100.000	98.4	
	82 1,3,5-Trimethylbenzene	105	14.319	14.316	(0.923)	2491286	100.000	106	
	83 2-Chlorotoluene	91	14.255	14.252	(0.918)	2170686	100.000	99.2	
	84 1,2,3-Trichloropropane	75	14.333	14.330	(0.924)	689829	100.000	96.2	
	85 4-Chlorotoluene	91	14.505	14.502	(0.935)	2201985	100.000	99.2	
	86 tert-Butylbenzene	119	14.791	14.795	(0.953)	2673798	100.000	107	
	87 Pentachloroethane	117	14.827	14.824	(0.955)	587296	100.000	112	
	88 1,2,4-Trimethylbenzene	105	14.905	14.902	(0.960)	2422439	100.000	104	
	89 P-Isopropyltoluene	119	15.298	15.295	(0.986)	2737310	100.000	106	
	90 1,3-Dichlorobenzene	146	15.398	15.403	(0.992)	1481372	100.000	101	
*	91 1,4-Dichlorobenzene-D4	152	15.520	15.517	(1.000)	538206	50.0000		
	92 1,4-Dichlorobenzene	146	15.541	15.546	(1.001)	1452353	100.000	98.2	
	93 N-Butylbenzene	91	15.970	15.967	(1.029)	2574333	100.000	102	
	94 sec-Butylbenzene	105	15.070	15.067	(0.971)	3285765	100.000	101	
	95 1,2-Dichlorobenzene	146	16.220	16.218	(1.045)	1379031	100.000	106	
	96 1,2-Dibromo-3-Chloropropane	75	17.564	17.569	(1.132)	169623	100.000	113	
	97 1,3,5-Trichlorobenzene	180	17.621	17.626	(1.135)	1074143	100.000	108	
	98 Hexachlorobutadiene	225	18.729	18.726	(1.207)	488253	100.000	104	
	99 1,2,4-Trichlorobenzene	180	18.765	18.762	(1.209)	825284	100.000	116	
	100 1,2,3-Trimethylbenzene	105	15.584	15.589	(1.004)	2353997	100.000	98.9	
	101 Naphthalene	128	19.351	19.348	(1.247)	1965698	100.000	136	
	102 1,2,3-Trichlorobenzene	180	19.687	19.684	(1.269)	648639	100.000	116	
	103 Methyl Acetate	43	4.977	4.974	(0.619)	567345	100.000	101	
	104 Methylcyclohexane	83	8.629	8.625	(1.073)	957124	100.000	105	
M	153 Total Alkylbenzenes	100				22471749	100.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Date : 29-DEC-2014 18:10
Client ID: Initial Calibration
Sample Info: WG157320-5
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C122914B.b\C0797A.D
Y (x10^6)
Min
-Chloromethane (2.232)
-Vinyl Chloride (2.325)
-Bromomethane (2.725)
-Chloroethane (2.883)
-Trichlorofluoromethane (3.047)
-Diethyl Ether (3.497)
-1,1-Dichloroethene (3.748)+
-Iodomethane (3.962)
-Acrolein (4.277)
-Allyl Chloride (4.477)
-Methylene Chloride (4.648)
-Acetone (4.763)
-trans-1,2-Dichloroethene (4.913)+
-Methyl tert-butyl ether (5.134)
-Tertiary-butyl alcohol (5.356)
-Acetonitrile (5.549)
-Diisopropyl ether (5.785)
-Chloroprene (5.906)+
-Acrylonitrile (6.049)
-Ethyl tertiary-butyl ethe (6.364)+
-cis-1,2-Dichloroethene (6.757)
-2,2-Dichloropropane (6.907)
-Bromochloromethane (7.021)+
-Chloroform (7.157)
-Carbon tetrachloride (7.314)+
1,1,1-Trichloroethane (7.415)
-2-Butanone (7.579)
-1,2-Dichloroethylene (tot (7.780)
-Propionitrile (7.908)+
-Isobutyl Alcohol (8.258)+
-Trichloroethene (8.644)+
-Dibromomethane (9.166)
-Methyl Methacrylate (9.566)+
-2-Chloroethylvinylether (10.045)
-cis-1,3-Dichloropropene (10.109)
-Toluene-D8 (10.317)+
Toluene (10.381)
-Ethyl Methacrylate (11.060)+
1,1-Dichloropropene (10.824)+
-Dibromochloromethane (11.267)
-1,3-Dichloropropane (11.382)
-1,2-Dibromoethane (11.553)
-2-Hexanone (11.839)
-Chlorobenzene-D5 (12.189)+
1,1,1,2-Tetrachloroethane (12.297)
m+p-Xylenes (12.440)
-Isopropylbenzene (13.440)
-P-Bromofluorobenzene (13.841)
-1,1,2,2-Tetrachloroethane (14.124)
-2-Chlorotoluene (14.255)
-4-Chlorotoluene (14.505)
1,3,5-Trimethylbenzene (14.320)+
-1,2,4-Trimethylbenzene (14.906)
-sec-Butylbenzene (15.070)
-P-Isopropyltoluene (15.299)
-1,3-Dichlorobenzene (15.399)
-1,4-Dichlorobenzene-D4 (15.542)+
-N-Butylbenzene (15.971)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.221)
-1,2-Dibromo-3-Chloropropa (17.565)
1,3,5-Trichlorobenzene (17.622)
-Hexachlorobutadiene (18.723)+
-Naphthalene (19.352)
-1,2,3-Trichlorobenzene (19.688)
-Xylenes (total) (21.380)

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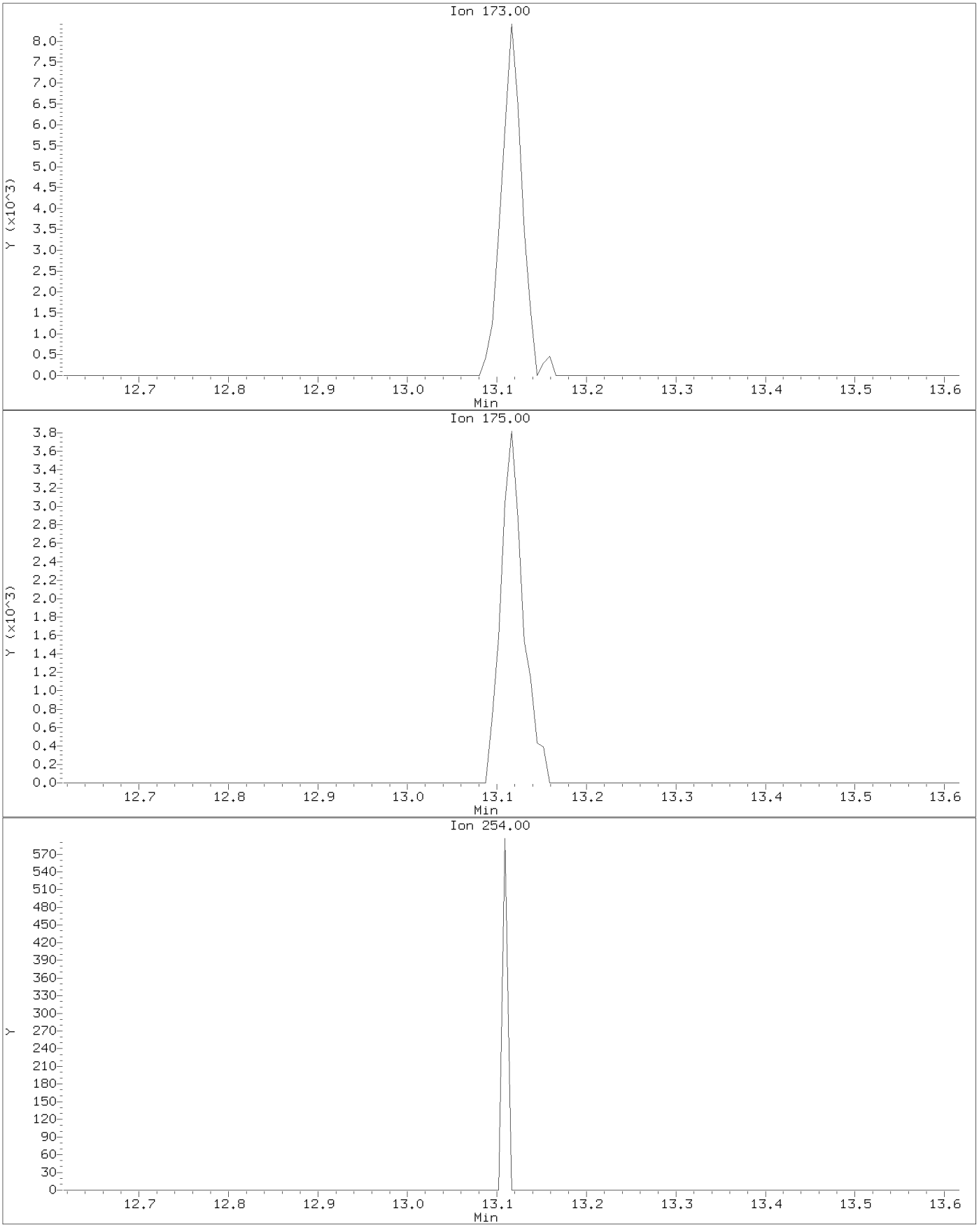
Instrument: gcms-c.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

BEFORE MANUAL INTEGRATION



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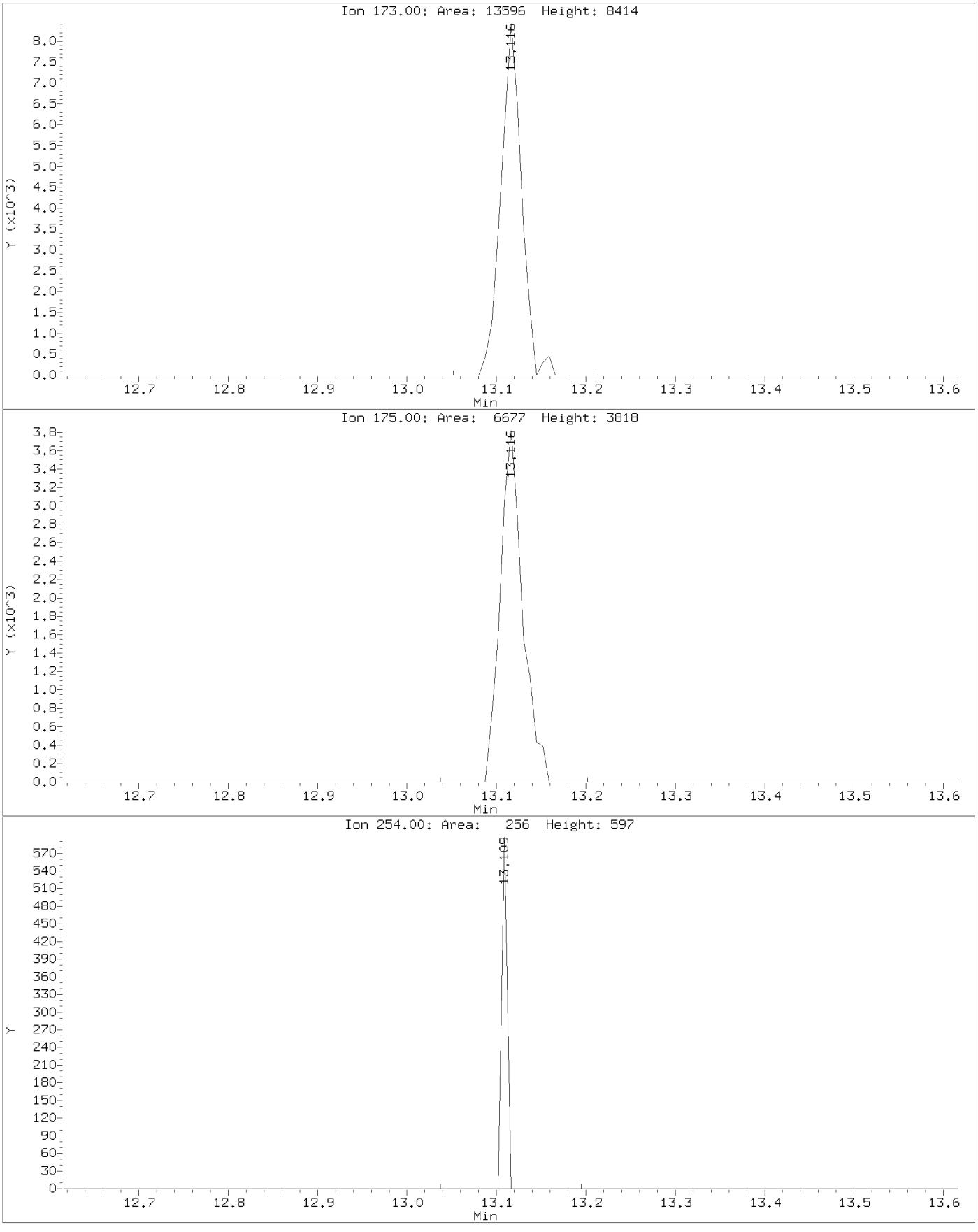
Instrument: gcms-c.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

AFTER MANUAL INTEGRATION



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Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: trans-1,2-Dichloroethene
CAS Number: 156-60-5

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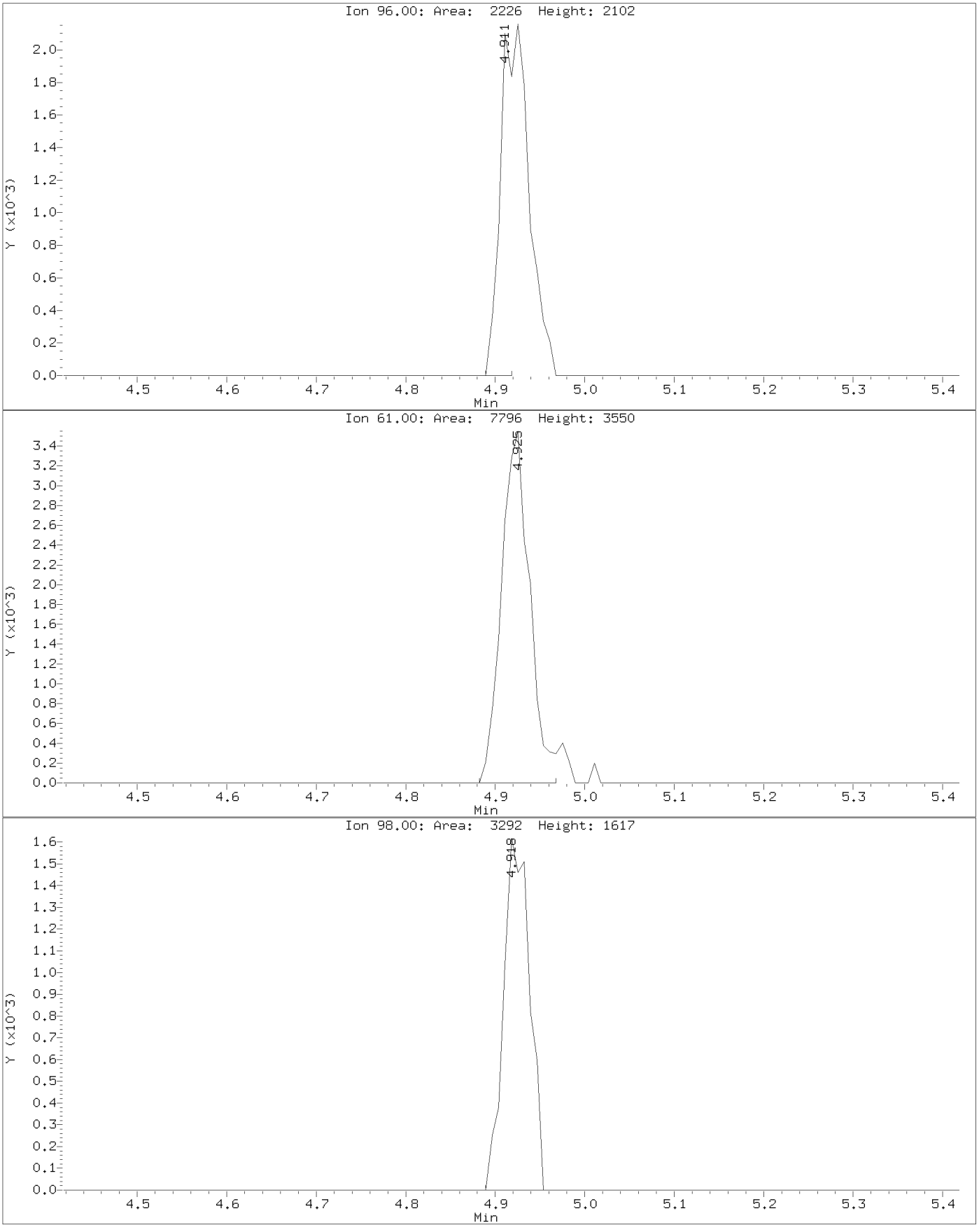

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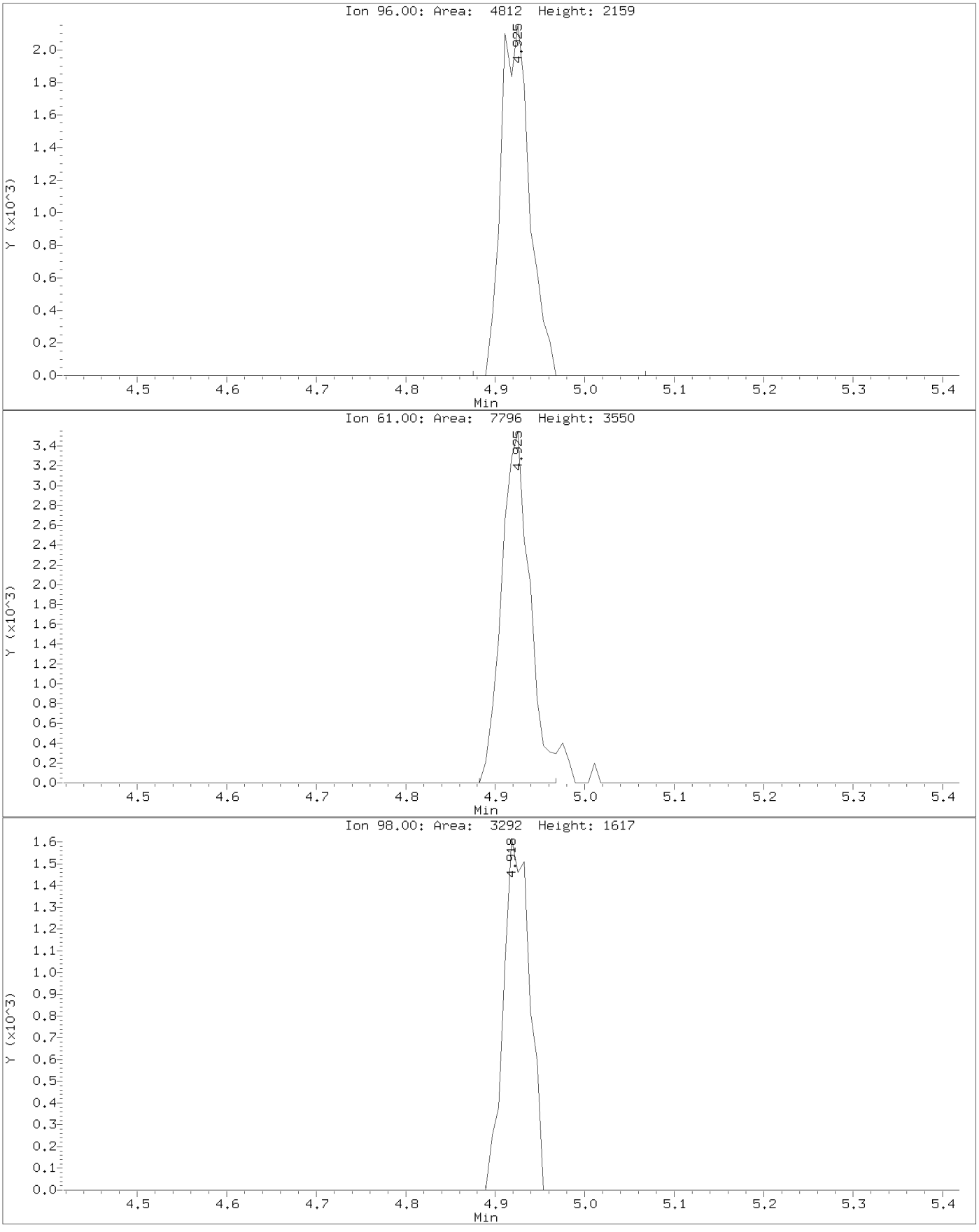
Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: trans-1,2-Dichloroethene
CAS Number: 156-60-5

AFTER MANUAL INTEGRATION



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Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: cis-1,2-Dichloroethene
CAS Number: 156-59-2

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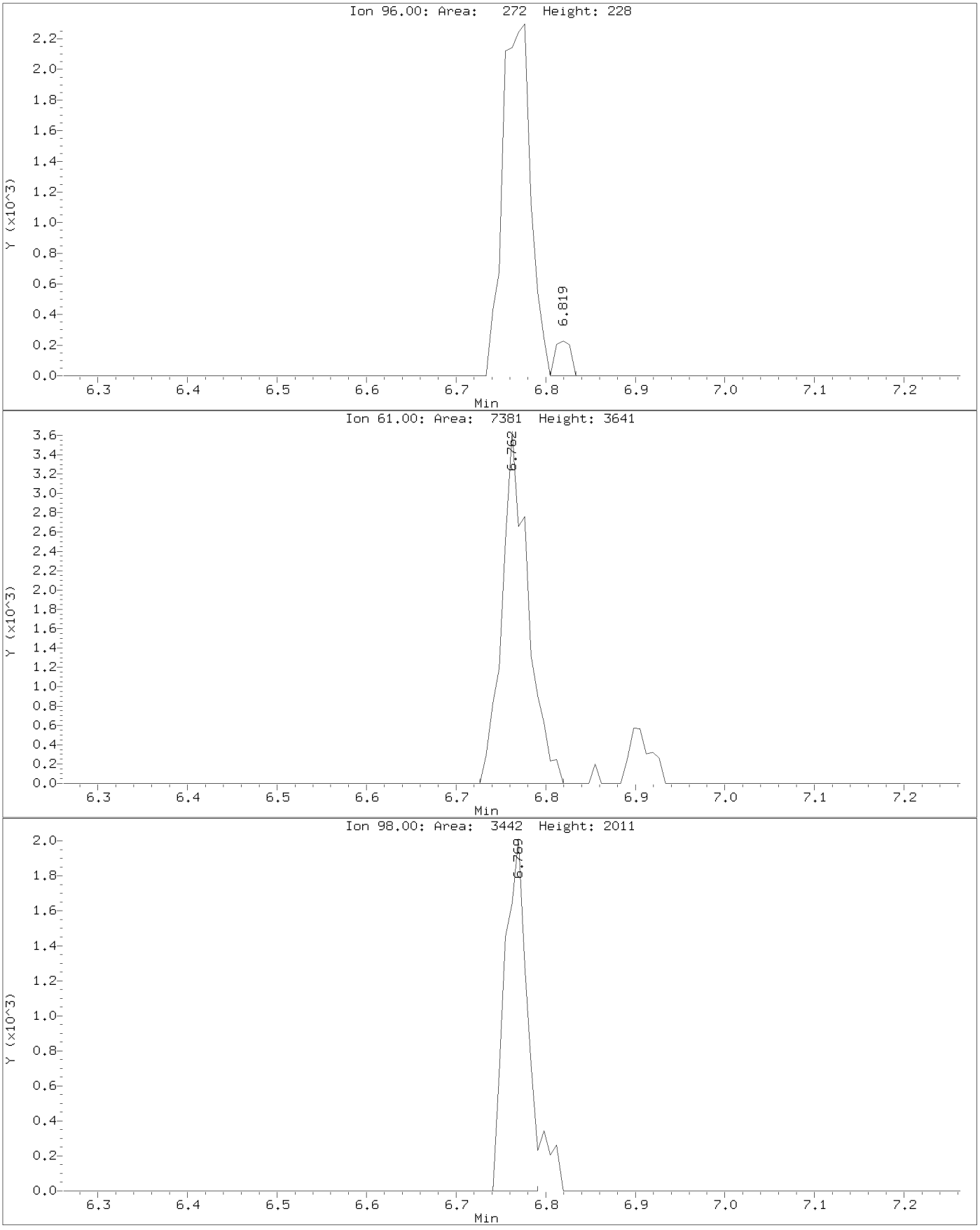

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Instrument: gcms-c.i
Client Sample ID:

Compound: cis-1,2-Dichloroethene
CAS Number: 156-59-2

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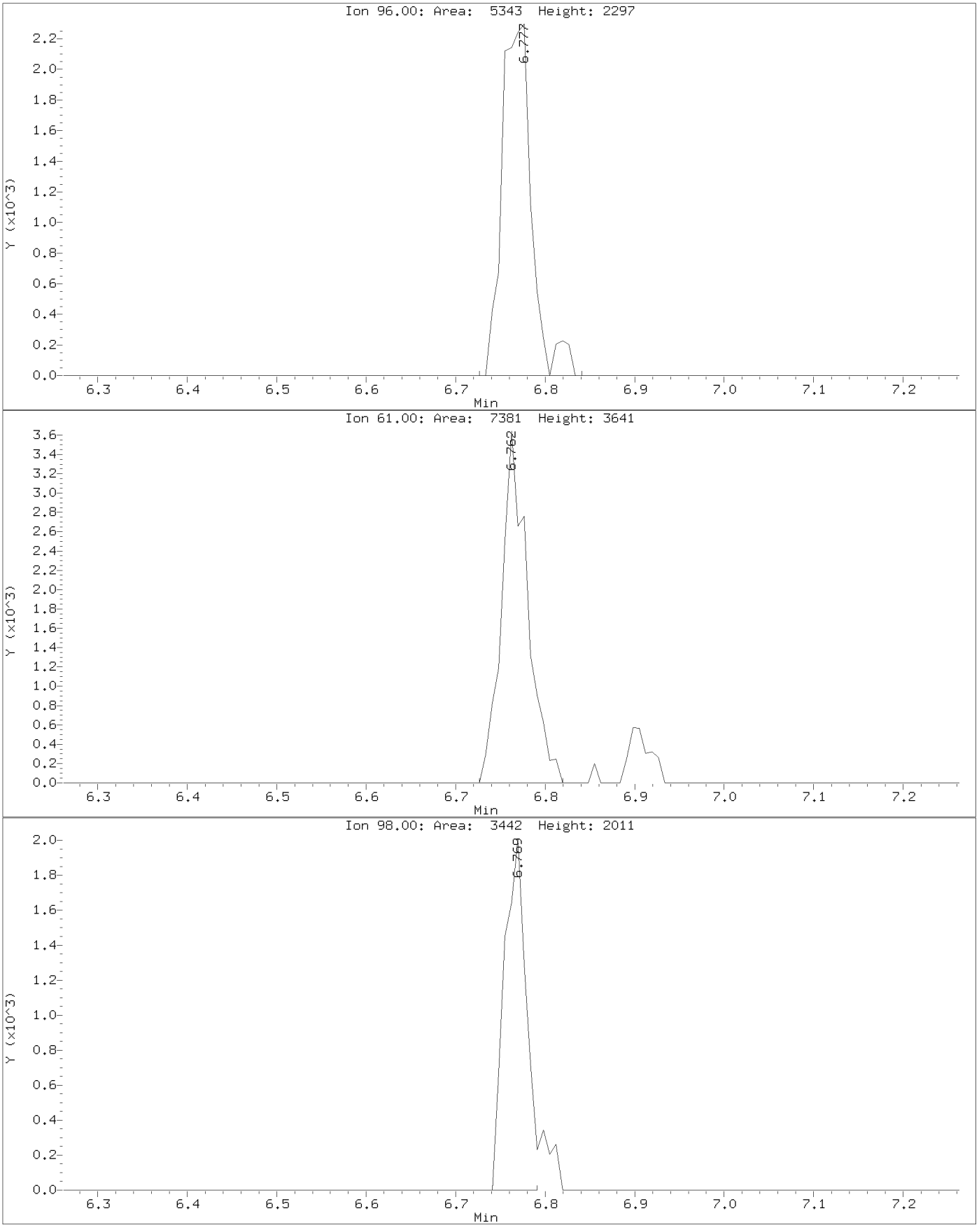

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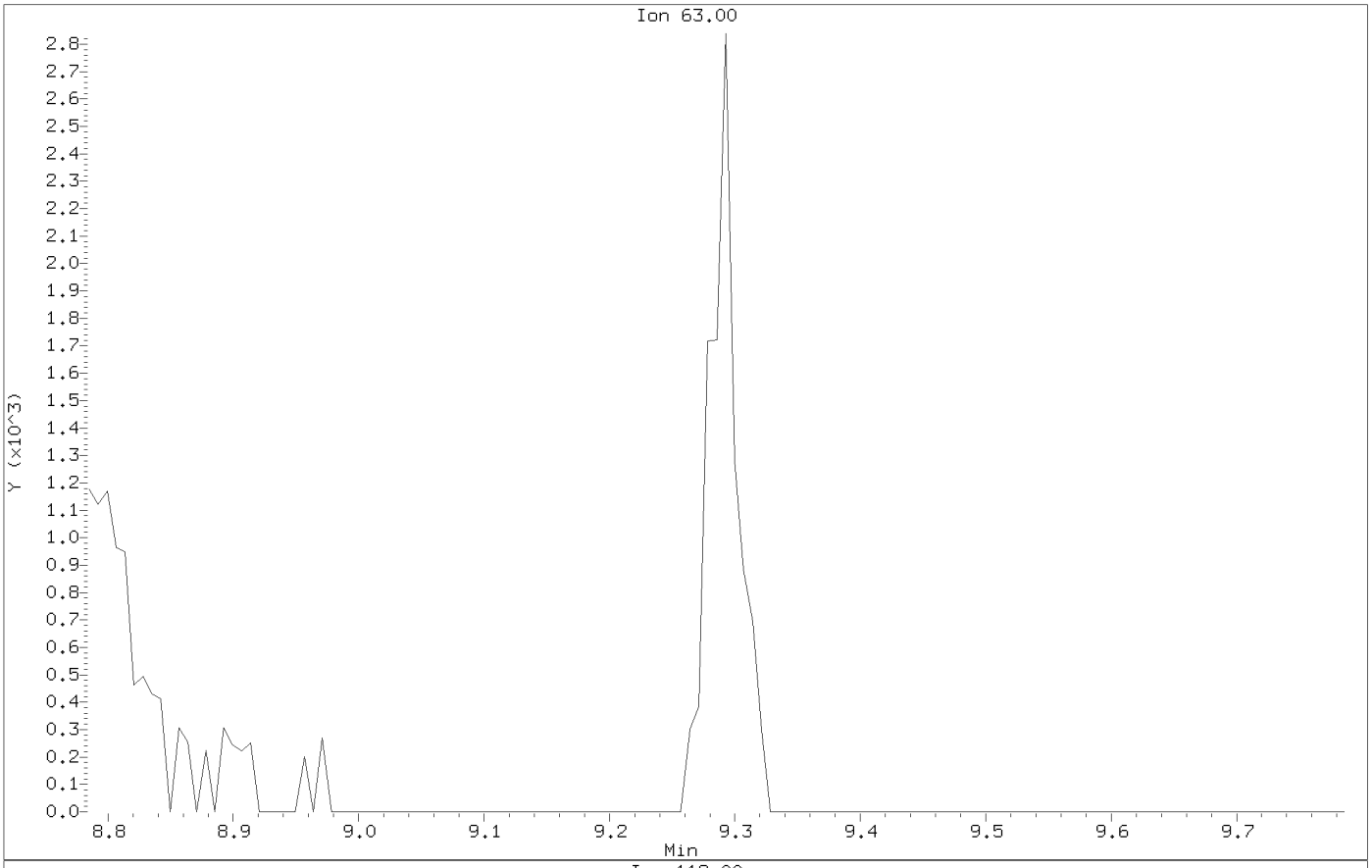
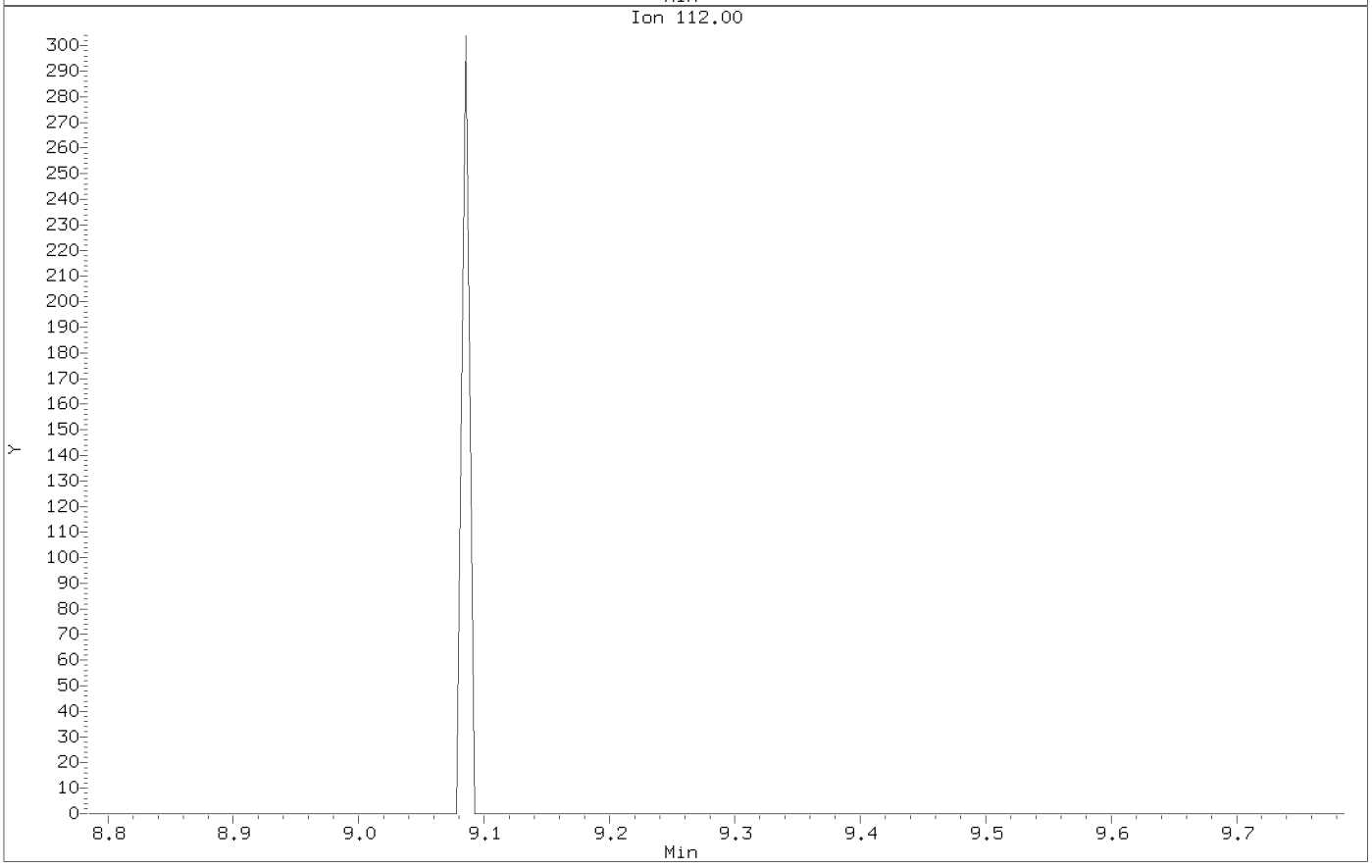
Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

BEFORE MANUAL INTEGRATION





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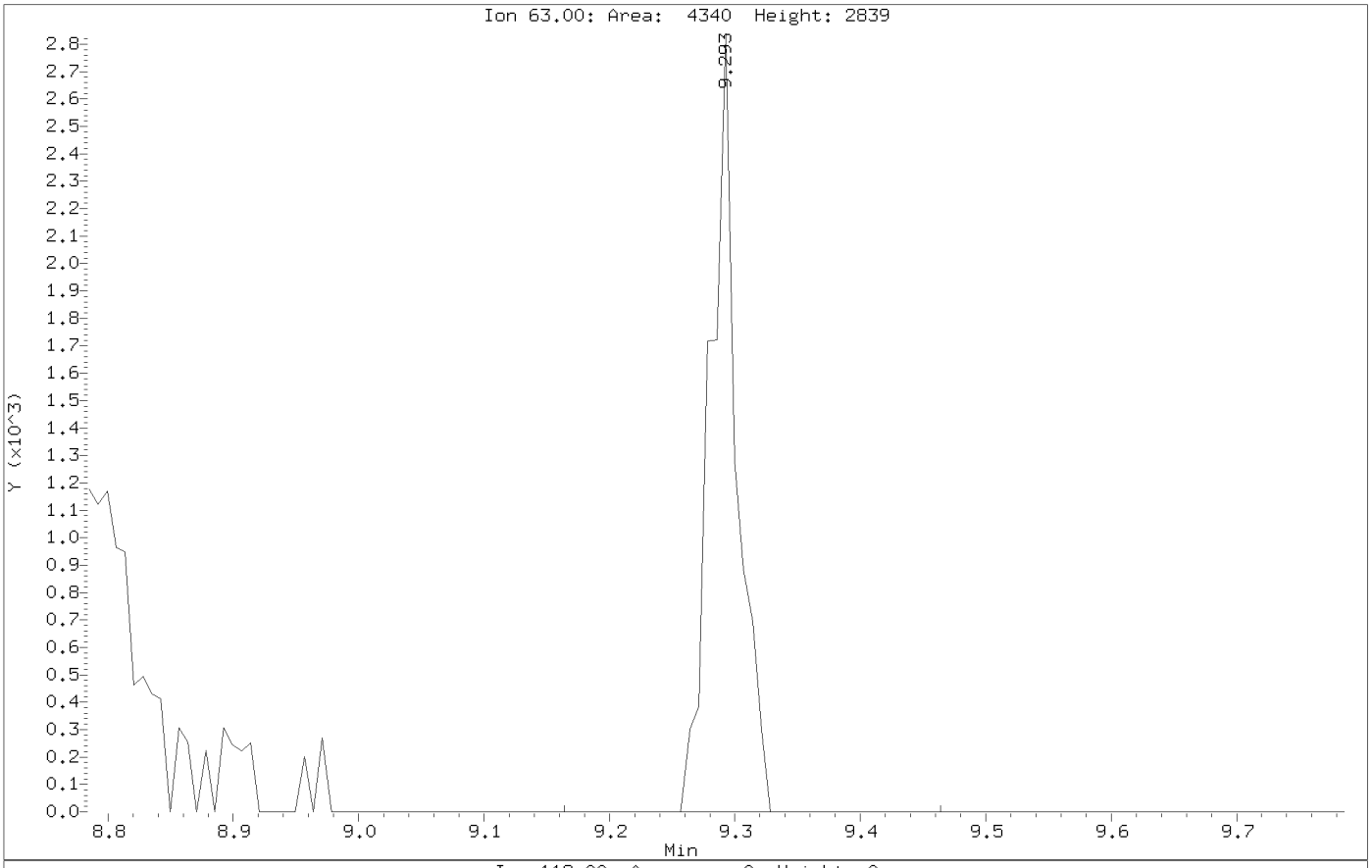
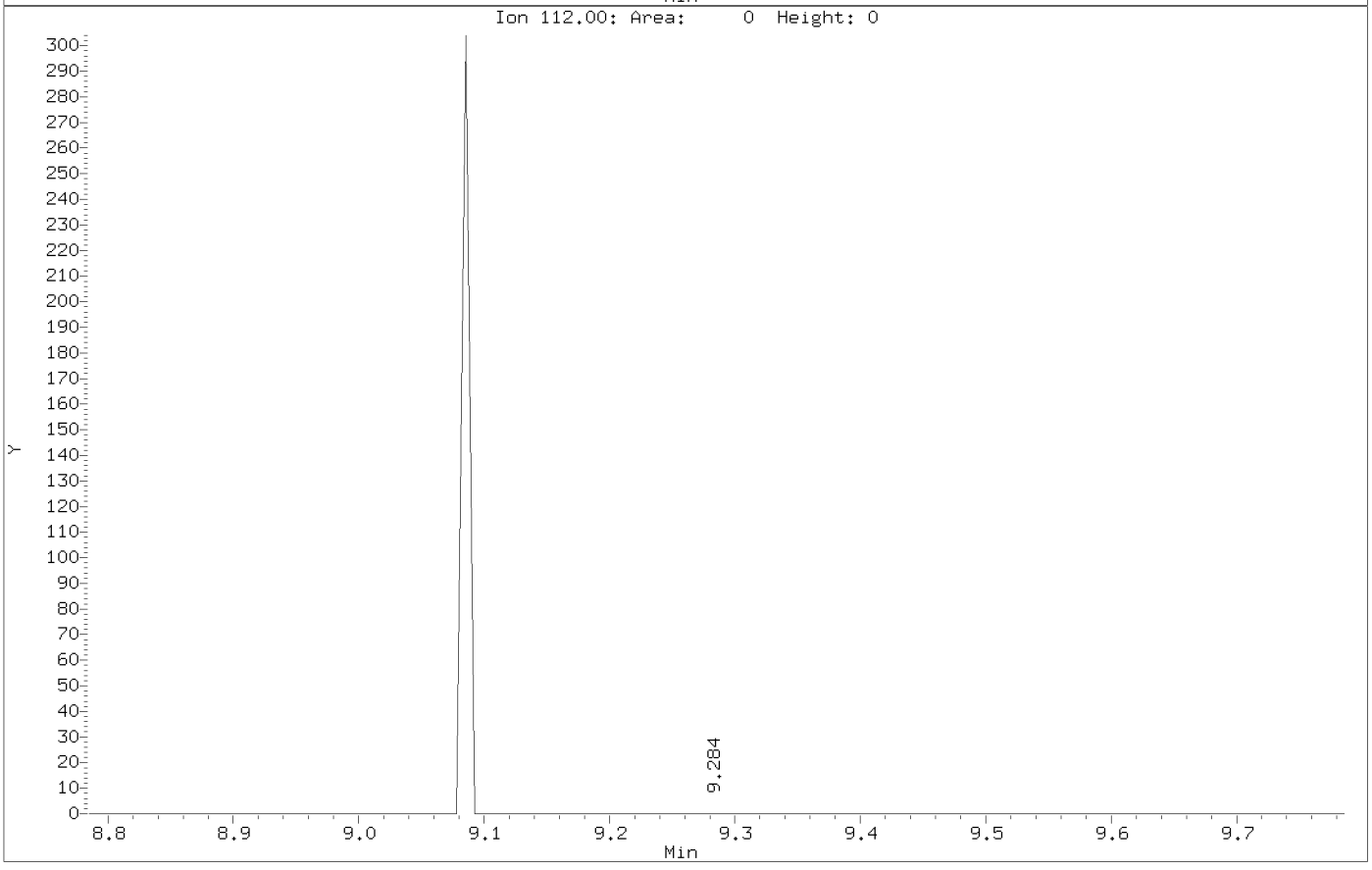
Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

AFTER MANUAL INTEGRATION





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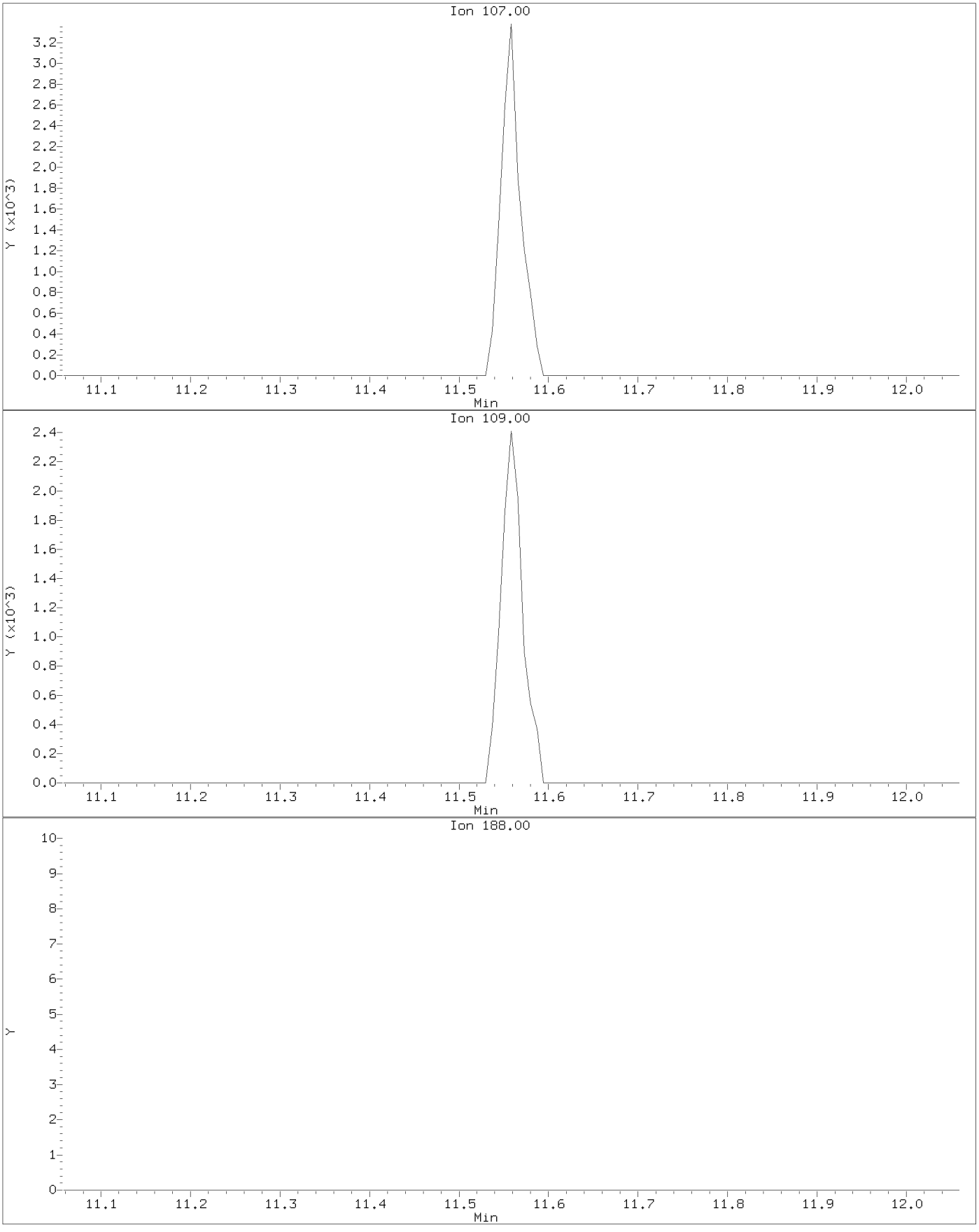
Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

BEFORE MANUAL INTEGRATION



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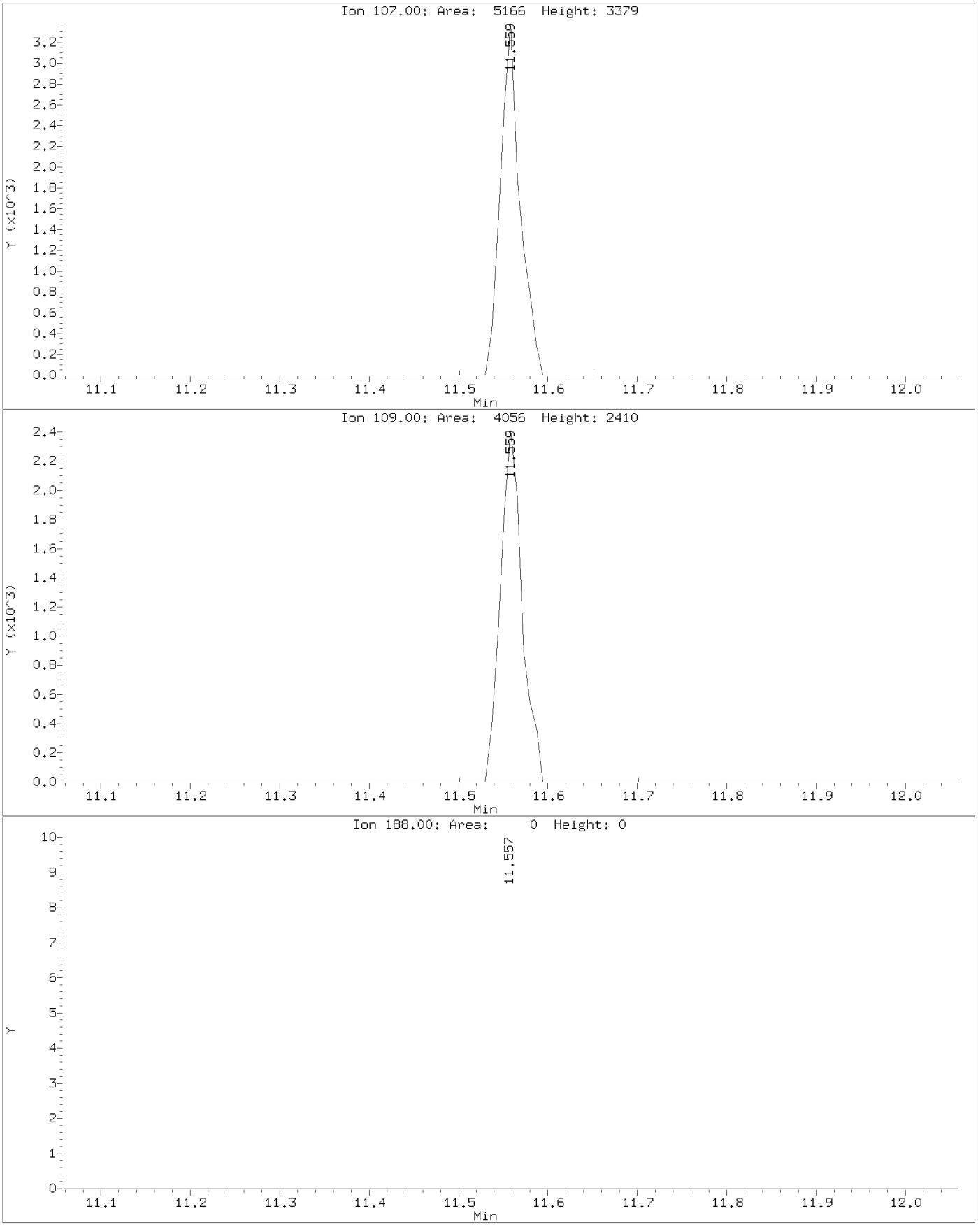
Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

AFTER MANUAL INTEGRATION



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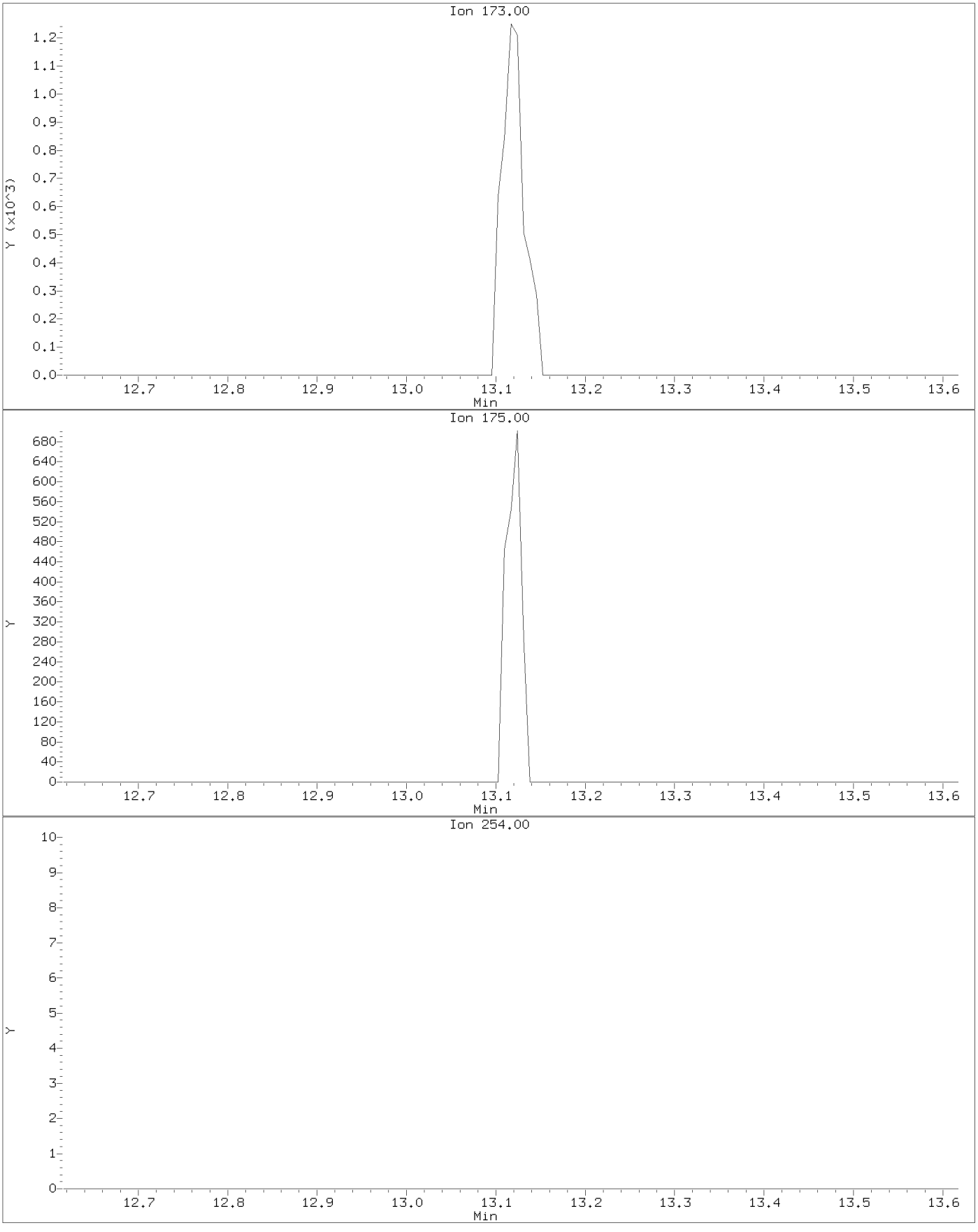
Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

BEFORE MANUAL INTEGRATION



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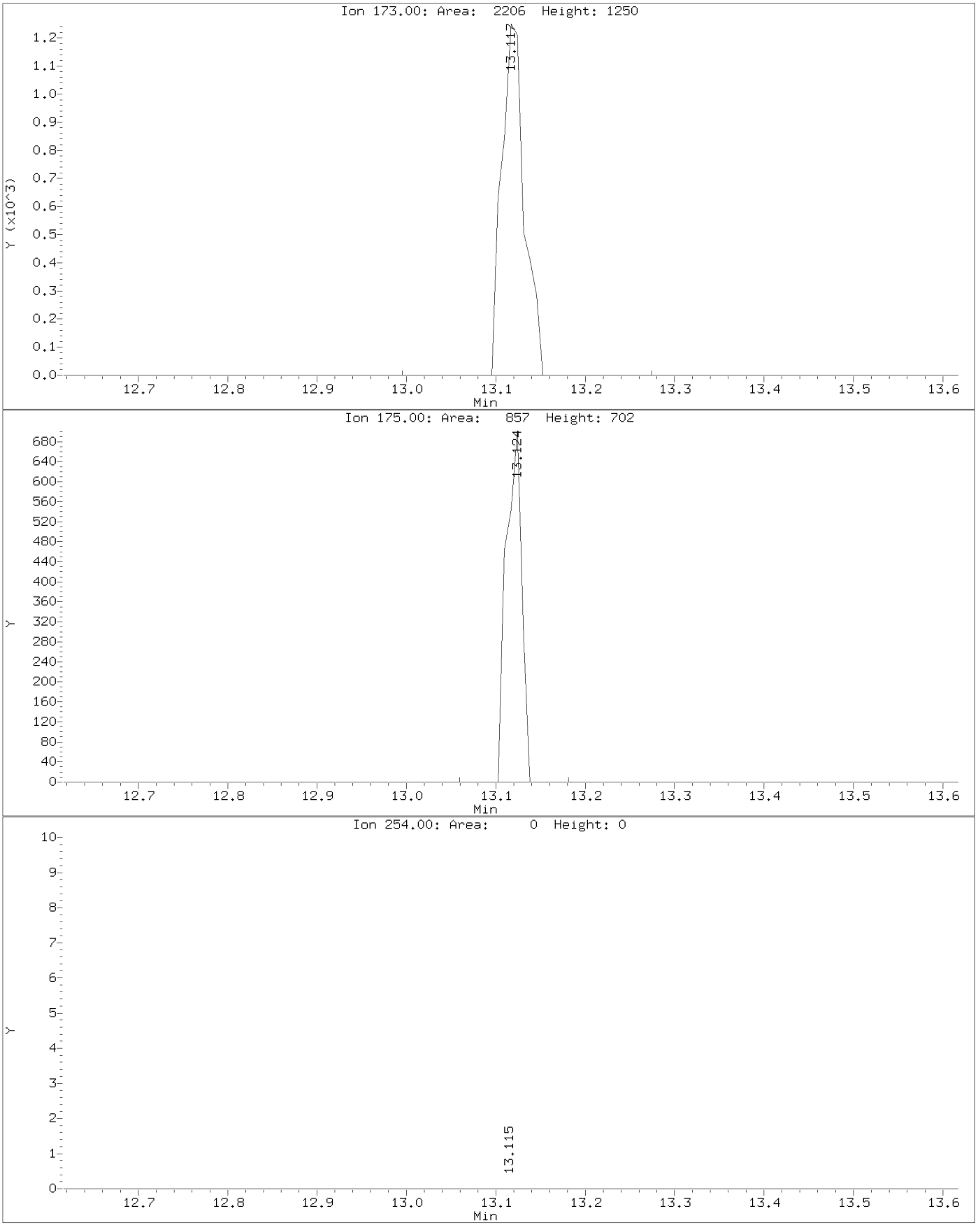
Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

AFTER MANUAL INTEGRATION



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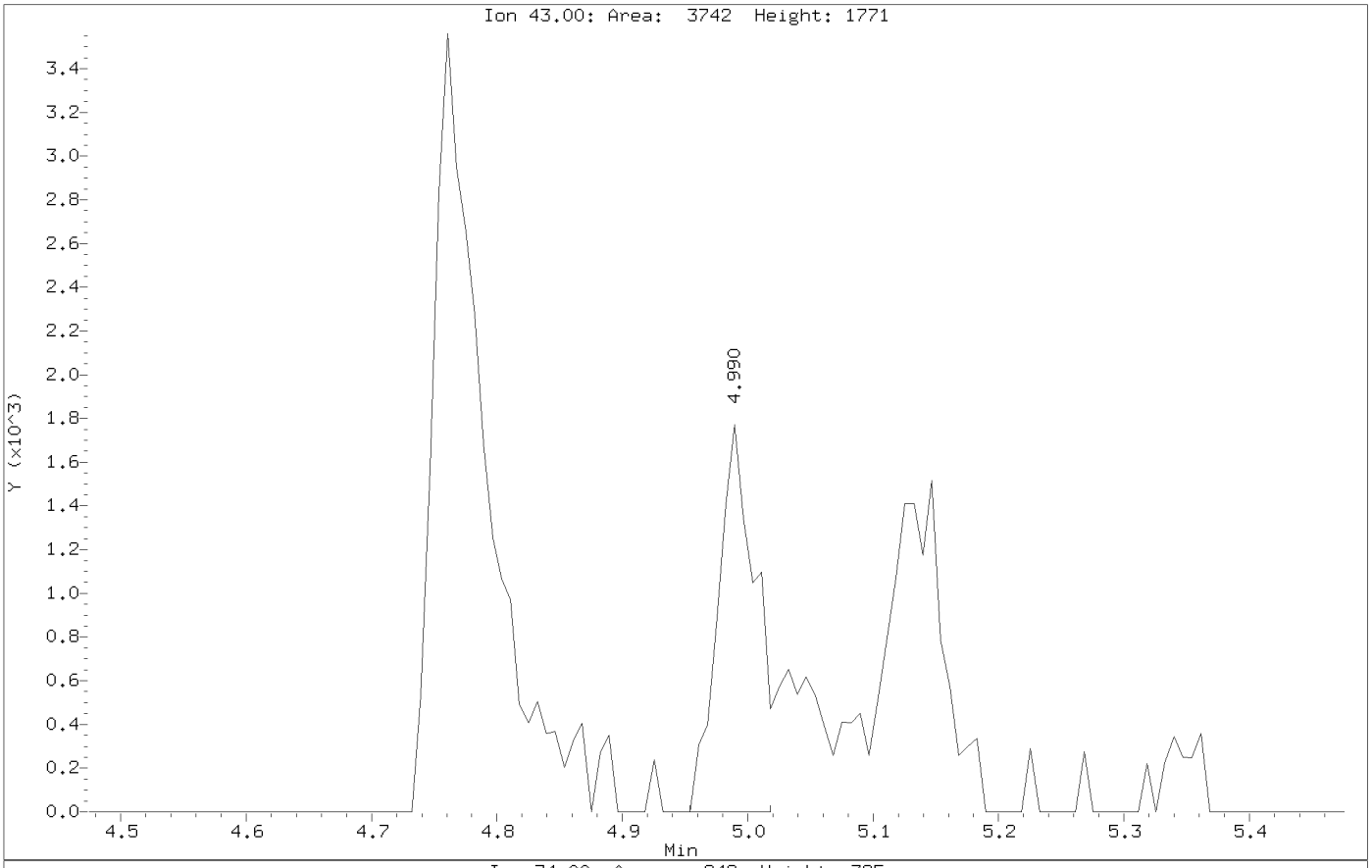
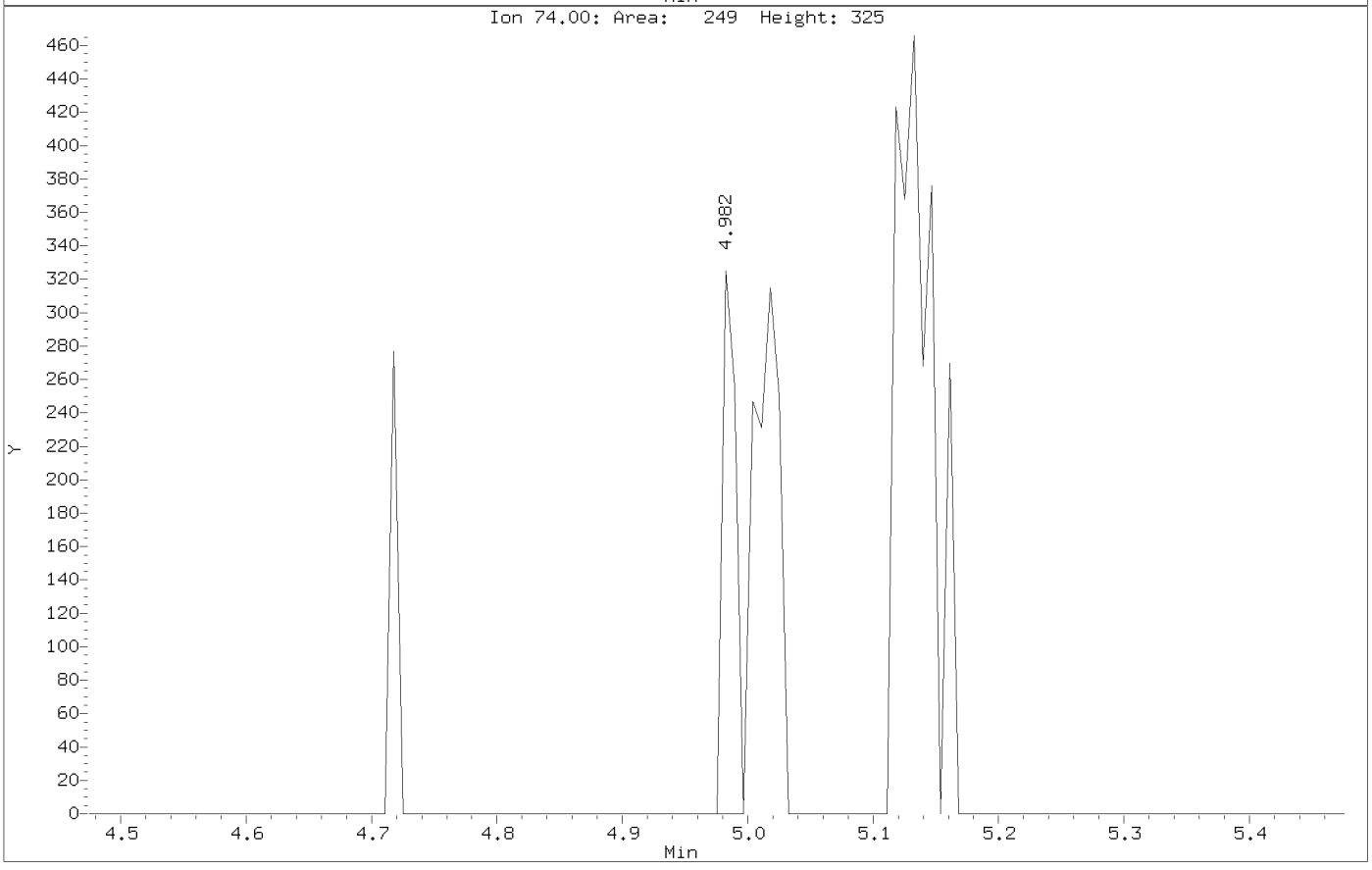
Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: Methyl Acetate
CAS Number: 79-20-9

BEFORE MANUAL INTEGRATION





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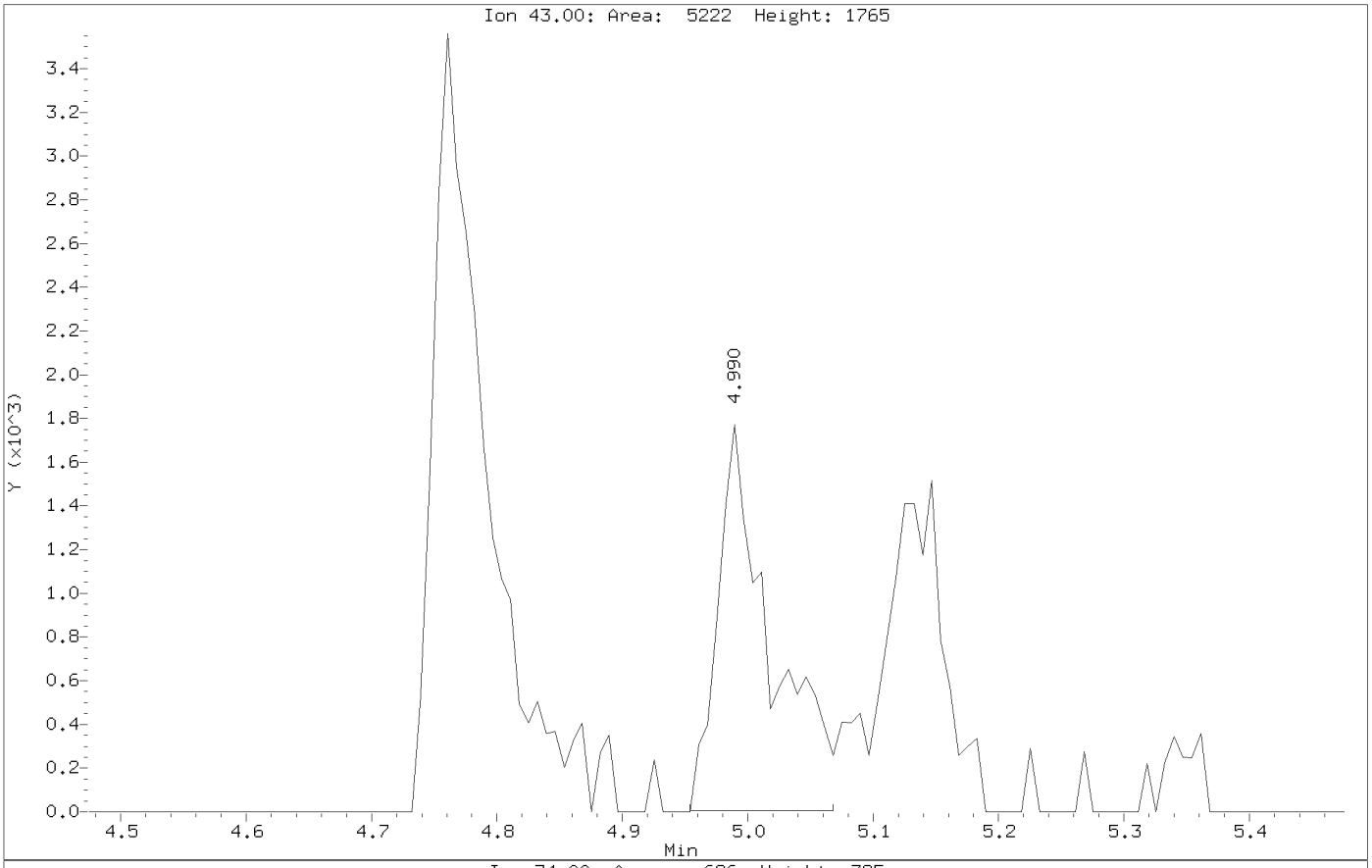
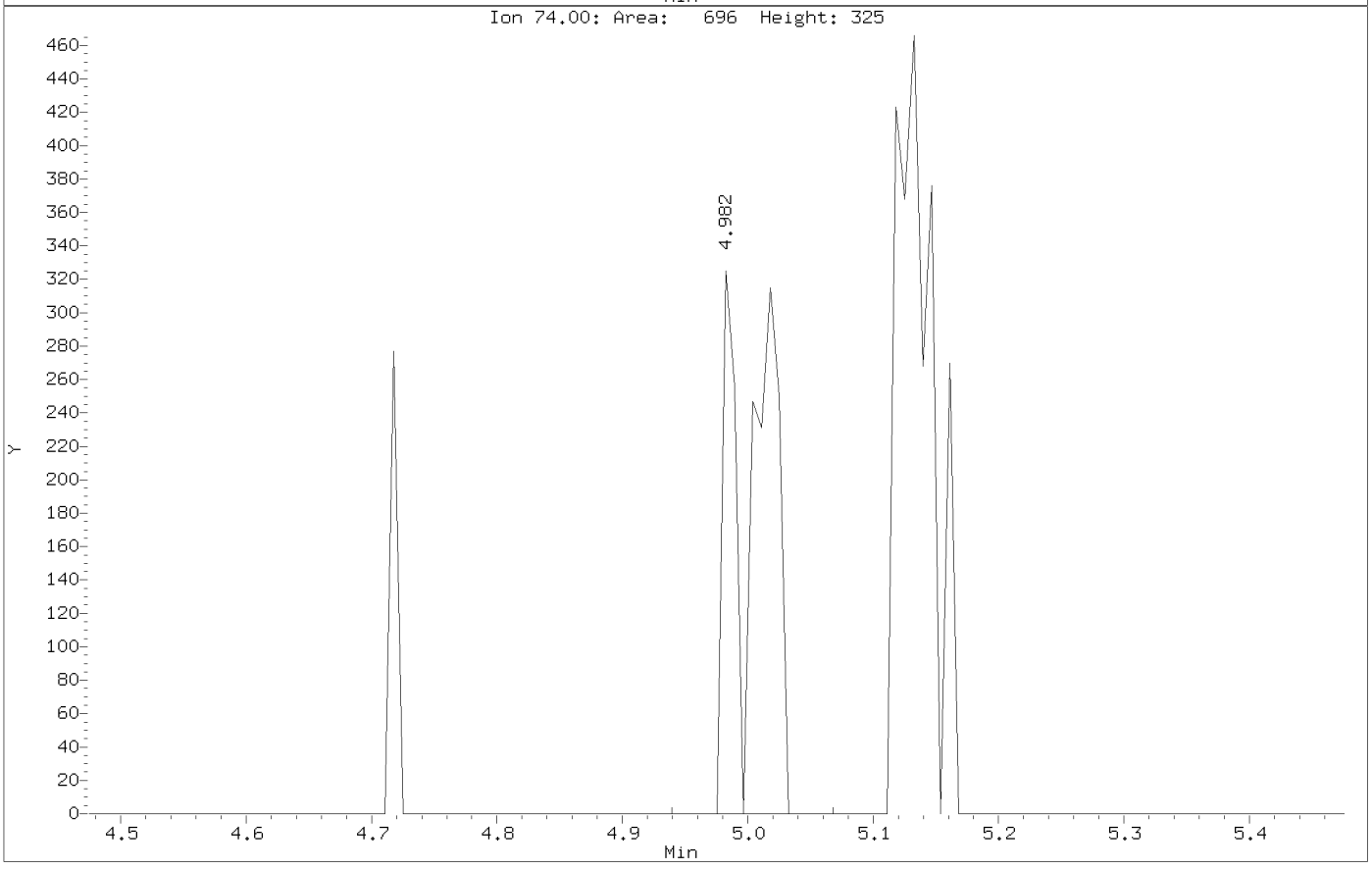
Injection Date: 29-DEC-2014 17:05
Instrument: gcms-c.i
Client Sample ID:

Compound: Methyl Acetate
CAS Number: 79-20-9

AFTER MANUAL INTEGRATION





Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0800.D
Report Date: 21-Jan-2015 13:22

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122914B.b\C0800.D
Lab Smp Id: WG157320-7
Inj Date : 29-DEC-2014 19:52
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157320-7,SI0230
Misc Info : WG157320,WG157320-3,SI230-2
Comment :
Method : \\target_server\gg\chem\gcms-c.i\C122914B.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.989	1.993	(0.248)	165306	21.0756	21.1	
2	Chloromethane	50	2.232	2.229	(0.278)	210962	19.5853	19.6	
3	Vinyl chloride	62	2.325	2.329	(0.289)	152858	19.9029	19.9	
4	Bromomethane	94	2.725	2.729	(0.339)	74656	20.1531	20.2	
5	Chloroethane	64	2.883	2.879	(0.359)	56432	17.3758	17.4	
6	Trichlorofluoromethane	101	3.054	3.058	(0.380)	205228	18.8967	18.9	
7	Diethyl Ether	59	3.490	3.494	(0.434)	87013	19.7943	19.8	
8	Tertiary-butyl alcohol	59	5.349	5.353	(0.666)	57048	117.621	118(R)	
9	1,1-Dichloroethene	96	3.747	3.751	(0.466)	90158	17.5304	17.5	
10	Carbon Disulfide	76	3.783	3.787	(0.471)	350997	22.7785	22.8	
11	Freon-113	151	3.812	3.809	(0.474)	71360	20.3848	20.4	
12	Iodomethane	142	3.955	3.959	(0.492)	73733	21.3107	21.3	
13	Acrolein	56	4.269	4.266	(0.531)	105761	108.564	108(R)	
14	Methylene Chloride	84	4.648	4.652	(0.578)	125233	18.3414	18.3	
15	Acetone	43	4.762	4.752	(0.593)	52671	21.0295	21.0	
16	Isobutyl Alcohol	43	8.258	8.255	(1.028)	110937	474.299	474	
17	trans-1,2-Dichloroethene	96	4.920	4.917	(0.612)	102841	18.2529	18.2	
18	Allyl Chloride	41	4.477	4.473	(0.557)	184436	20.7966	20.8	
19	Methyl tert-butyl ether	73	5.127	5.131	(0.638)	570726	43.6335	43.6	
20	Acetonitrile	39	5.542	5.546	(0.690)	50845	199.168	199	
21	Di-isopropyl ether	45	5.785	5.789	(0.720)	365851	21.6922	21.7	
22	Chloroprene	53	5.906	5.910	(0.735)	178736	21.5471	21.5	
23	Propionitrile	54	7.965	7.969	(0.991)	240319	231.909	232	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0800.D
Report Date: 21-Jan-2015 13:22

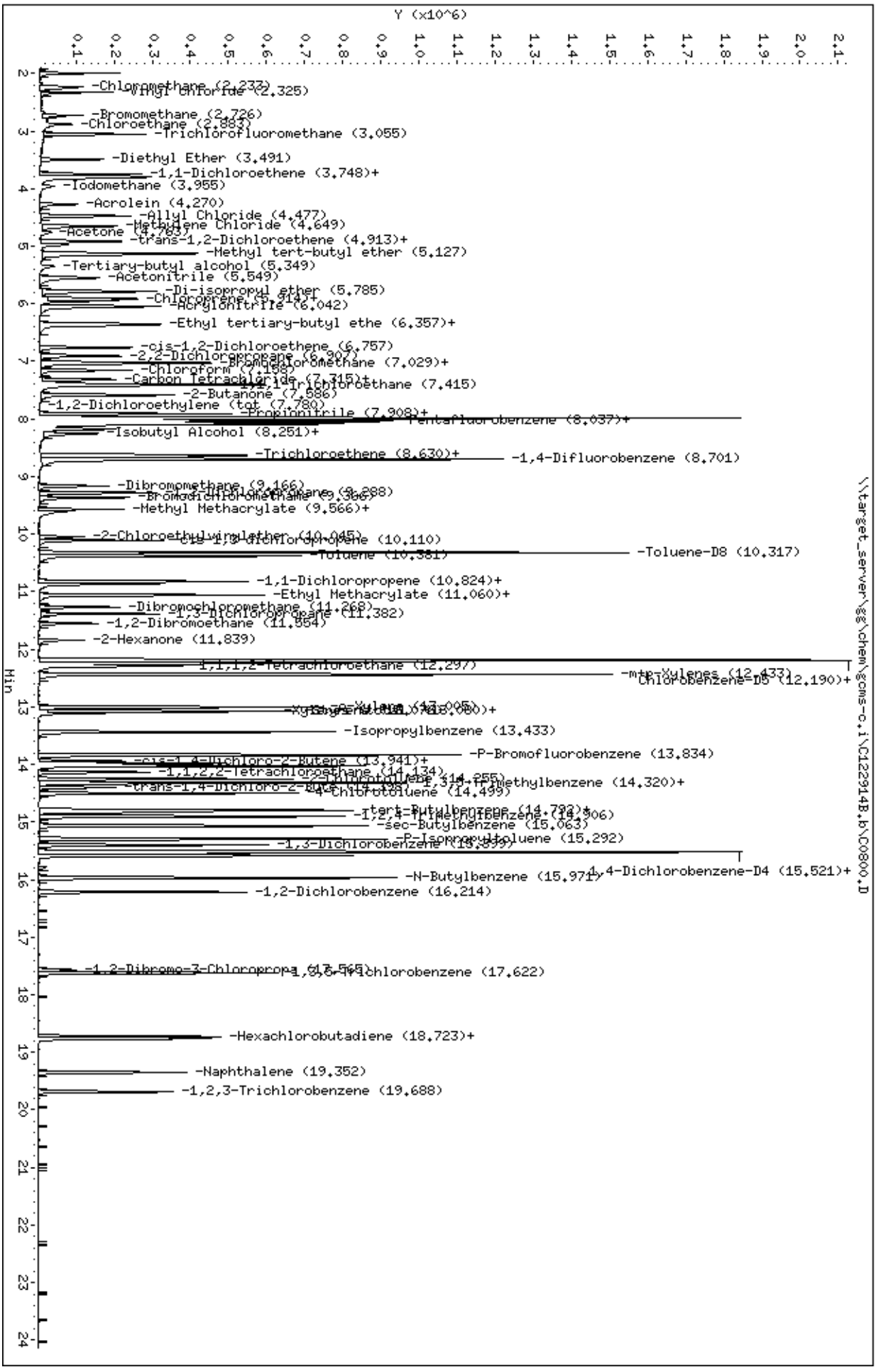
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	7.986	7.990	(0.994)	905140	233.339	233	
	25	1,1-Dichloroethane	63	5.949	5.953	(0.740)	205827	19.1727	19.2	
	26	Acrylonitrile	52	6.042	6.046	(0.752)	251296	110.674	111	
	27	Ethyl tertiary-butyl ether	59	6.349	6.353	(0.790)	305235	22.0784	22.1	
	28	Vinyl Acetate	43	6.371	6.375	(0.732)	265450	20.0213	20.0	
	29	cis-1,2-Dichloroethene	96	6.757	6.761	(0.841)	117022	19.0383	19.0	
M	30	1,2-Dichloroethylene (total)	96				219863	37.2912	37.3	
	31	Methyl Methacrylate	41	9.566	9.570	(1.099)	116522	24.0047	24.0(R)	
	32	2,2-Dichloropropane	77	6.907	6.911	(0.859)	143888	17.4151	17.4	
	33	Bromochloromethane	128	7.036	7.040	(0.875)	53660	19.7718	19.8	
	34	Chloroform	83	7.157	7.154	(0.891)	202757	18.4772	18.5	
	35	Carbon Tetrachloride	117	7.314	7.318	(0.841)	141791	19.0071	19.0	
	36	Tetrahydrofuran	42	7.371	7.361	(0.917)	37790	18.7563	18.8	
$	37	Dibromofluoromethane	113	7.400	7.404	(0.921)	263823	49.9729	50.0	
	38	1,1,1-Trichloroethane	97	7.414	7.418	(0.923)	180054	18.9341	18.9	
	39	1,1-Dichloropropene	75	10.867	10.871	(1.249)	153925	19.9961	20.0	
	40	2-Butanone	43	7.586	7.583	(0.944)	66041	20.4892	20.5	
	41	Benzene	78	7.908	7.912	(0.909)	449326	20.3887	20.4	
*	42	Pentafluorobenzene	168	8.036	8.039	(1.000)	567035	50.0000		
	43	Cyclohexane	56	7.021	7.025	(0.874)	184934	19.6247	19.6	
	44	Ethyl Methacrylate	69	11.060	11.057	(1.271)	135671	21.3852	21.4	
$	45	1,2-Dichloroethane-D4	65	8.086	8.090	(1.006)	320964	48.0240	48.0	
	46	Tertiary-amyl methyl ether	73	8.079	8.083	(1.005)	246321	20.6408	20.6	
	47	1,2-Dichloroethane	62	8.172	8.176	(0.939)	151949	18.6262	18.6	
	48	Trichloroethene	95	8.651	8.654	(0.994)	109955	18.9270	18.9	
*	49	1,4-Difluorobenzene	114	8.701	8.705	(1.000)	921547	50.0000		
	50	Dibromomethane	93	9.166	9.162	(1.053)	66928	18.4736	18.5	
	51	1,2-Dichloropropane	63	9.287	9.284	(1.067)	111190	19.9761	20.0	
	52	Bromodichloromethane	83	9.366	9.370	(1.076)	150926	19.5744	19.6	
	53	cis-1,3-dichloropropene	75	10.109	10.113	(1.162)	167393	18.4741	18.5	
	54	1,4-Dioxane	88	9.609	9.613	(1.104)	53369	549.601	550(R)	
$	55	Toluene-D8	98	10.316	10.320	(1.186)	952304	53.6704	53.7	
	56	2-Chloroethylvinylether	63	10.045	10.049	(1.154)	48917	23.4158	23.4	
	57	Toluene	92	10.381	10.378	(1.193)	280263	20.3076	20.3	
	58	4-methyl-2-pentanone	43	10.831	10.828	(1.245)	125402	22.1714	22.2	
	59	Tetrachloroethene	164	10.824	10.821	(0.888)	95585	19.9068	19.9	
	60	trans-1,3-Dichloropropene	75	10.867	10.871	(1.249)	153925	19.9961	20.0	
	61	1,1,2-Trichloroethane	83	11.060	11.057	(1.271)	85243	19.1626	19.2	
	62	Dibromochloromethane	129	11.267	11.271	(0.924)	107831	19.2472	19.2	
	63	1,3-Dichloropropane	76	11.381	11.385	(0.934)	181020	20.5310	20.5	
	64	1,2-Dibromoethane	107	11.553	11.557	(1.328)	103667	18.2606	18.3	
	65	2-Hexanone	43	11.839	11.836	(0.971)	88746	21.3814	21.4	
*	66	Chlorobenzene-D5	117	12.189	12.193	(1.000)	918144	50.0000		
	67	Chlorobenzene	112	12.211	12.215	(1.002)	321338	19.5892	19.6	
	152	1-Chlorohexane	91	12.182	12.186	(1.516)	181781	19.2725	19.3	
	68	Ethylbenzene	106	12.246	12.250	(1.005)	175550	20.7243	20.7	
	69	1,1,1,2-Tetrachloroethane	131	12.296	12.293	(1.009)	108580	20.2966	20.3	
M	70	Xylenes (total)	106				642038	62.3658	62.4	
	71	m+p-Xylenes	106	12.432	12.436	(1.020)	432765	41.8714	41.9	
	72	o-Xylene	106	13.004	13.008	(1.067)	209273	20.4944	20.5	
	73	Styrene	104	13.076	13.080	(1.073)	337051	21.5522	21.6	
	74	Bromoform	173	13.111	13.115	(1.076)	70330	19.4023	19.4	
	75	Isopropylbenzene	105	13.433	13.437	(0.866)	564948	20.9768	21.0	
$	76	P-Bromofluorobenzene	95	13.833	13.837	(1.590)	407322	51.1275	51.1	

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\C0800.D
Report Date: 21-Jan-2015 13:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	77 cis-1,4-Dichloro-2-Butene	53	13.940	13.937	(0.898)	55933	20.3774	20.4	
	78 trans-1,4-Dichloro-2-Butene	53	14.398	14.402	(0.928)	45210	21.0309	21.0	
	79 Bromobenzene	156	13.983	13.987	(0.901)	137394	19.7846	19.8	
	80 N-Propylbenzene	91	14.026	14.030	(0.904)	713184	21.3996	21.4	
	81 1,1,2,2-Tetrachloroethane	83	14.133	14.137	(0.911)	161872	19.5287	19.5	
	82 1,3,5-Trimethylbenzene	105	14.319	14.316	(0.923)	483636	21.3256	21.3	
	83 2-Chlorotoluene	91	14.255	14.252	(0.918)	414868	19.9116	19.9	
	84 1,2,3-Trichloropropane	75	14.334	14.330	(0.924)	131591	19.3654	19.4	
	85 4-Chlorotoluene	91	14.498	14.502	(0.934)	430236	20.3460	20.3	
	86 tert-Butylbenzene	119	14.791	14.795	(0.953)	508173	21.0229	21.0	
	87 Pentachloroethane	117	14.827	14.824	(0.955)	103469	20.3552	20.4	
	88 1,2,4-Trimethylbenzene	105	14.905	14.902	(0.960)	493000	21.9635	22.0	
	89 P-Isopropyltoluene	119	15.291	15.295	(0.985)	574157	23.0587	23.0	
	90 1,3-Dichlorobenzene	146	15.399	15.403	(0.992)	274125	19.5306	19.5	
*	91 1,4-Dichlorobenzene-D4	152	15.520	15.517	(1.000)	513366	50.0000		
	92 1,4-Dichlorobenzene	146	15.542	15.546	(1.001)	277813	19.7466	19.7	
	93 N-Butylbenzene	91	15.971	15.967	(1.029)	580563	23.9866	24.0	
	94 sec-Butylbenzene	105	15.063	15.067	(0.971)	696905	22.3690	22.4	
	95 1,2-Dichlorobenzene	146	16.214	16.218	(1.045)	248794	19.8292	19.8	
	96 1,2-Dibromo-3-Chloropropane	75	17.565	17.569	(1.132)	27928	19.0596	19.0	
	97 1,3,5-Trichlorobenzene	180	17.622	17.626	(1.135)	217620	22.7346	22.7	
	98 Hexachlorobutadiene	225	18.722	18.726	(1.206)	102272	22.6968	22.7	
	99 1,2,4-Trichlorobenzene	180	18.765	18.762	(1.209)	155010	22.3095	22.3	
	100 1,2,3-Trimethylbenzene	105	15.585	15.589	(1.004)	502456	22.1651	22.2	
	101 Naphthalene	128	19.352	19.348	(1.247)	342999	23.5099	23.5	
	102 1,2,3-Trichlorobenzene	180	19.687	19.684	(1.269)	122045	22.2478	22.2	
	103 Methyl Acetate	43	4.977	4.974	(0.619)	120218	21.9364	21.9	
	104 Methylcyclohexane	83	8.630	8.625	(1.074)	201760	22.6488	22.6	
M	153 Total Alkylbenzenes	100				4614566	176.103	176(R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Min
-Chloromethane (2.232)
-Vinyl Chloride (2.325)
-Bromomethane (2.726)
-Chloroethane (2.883)
-Trichlorofluoromethane (3.055)
-Diethyl Ether (3.491)
-1,1-Dichloroethene (3.748)+
-Iodomethane (3.955)
-Acrolein (4.270)
-Allyl Chloride (4.477)
-Methylene Chloride (4.649)
-Acetone (4.703)
-trans-1,2-Dichloroethene (4.913)+
-Methyl tert-butyl ether (5.127)
-Tertiary-butyl alcohol (5.349)
-Acetonitrile (5.549)
-Di-isopropyl ether (5.785)
-Chloroprene (6.014)
-Acrylonitrile (6.042)
-Ethyl tertiary-butyl ethe (6.357)+
-cis-1,2-Dichloroethene (6.757)
-2,2-Dichloropropane (6.907)
-Bromochloromethane (7.029)+
-Chloroform (7.168)
-Carbon Tetrachloride (7.315)+
1,1,1-Trichloroethane (7.415)
-2-Butanone (7.586)
-1,2-Dichloroethylene (tot (7.780)
-Propionitrile (7.908)+
-Pentafluorobenzene (8.037)+
-Isobutyl Alcohol (8.251)+
-Trichloroethene (8.630)+
-1,4-Difluorobenzene (8.701)
-Dibrommethane (9.166)
-Bromodichloromethane (9.366)
-Methyl Methacrylate (9.566)+
-2-Chloroethylvinylether (10.045)
-Toluene (10.381)
-Toluene-D8 (10.317)
-1,1-Dichloropropene (10.824)+
-Ethyl Methacrylate (11.060)+
-Dibromochloromethane (11.268)
-1,2-Dibromoethane (11.554)
-2-Hexanone (11.839)
1,1,1,2-Tetrachloroethane (12.297)
-m&p-Xylenes (12.433)
Chlorobenzene-D5 (12.190)+
-Isopropylbenzene (13.433)
-P-Bromofluorobenzene (13.834)
-1,1,2,2-Tetrachloroethane (14.134)
-trans-1,4-Dichloro-2-Butene (14.499)
-1,2,4-Trimethylbenzene (14.706)
-sec-Butylbenzene (15.063)
-P-Isopropyltoluene (15.292)
-1,3-Dichlorobenzene (15.499)
1,4-Dichlorobenzene-D4 (15.521)+
-N-Butylbenzene (15.971)
-1,2-Dichlorobenzene (16.214)
-1,2,4-Trichlorobenzene (17.622)
-Hexachlorobutadiene (18.723)+
-Naphthalene (19.352)
-1,2,3-Trichlorobenzene (19.688)
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Date : 29-DEC-2014 19:52
Client ID:
Sample Info: WG157320-7,SI0230
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
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Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0996.D
Report Date: 21-Jan-2015 13:31

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa02236
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG157009-4
Level: LOW Operator: REC
Data Type: MS DATA SampleType: LCS
SpikeList File: E624cc.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-c.i\C011515.b\C624a27.m
Misc Info: WG157009,WG157320-3,SI0230-2

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
2 Chloromethane	20.0	16.0	79.81*	0-41
3 Vinyl chloride	20.0	18.7	93.43*	1-39
4 Bromomethane	20.0	13.4	66.85*	3-37
5 Chloroethane	20.0	20.0	100.27*	8-32
6 Trichlorofluoromet	20.0	19.7	98.65*	10-30
9 1,1-Dichloroethene	20.0	18.4	92.25*	10-30
14 Methylene Chloride	20.0	18.4	91.88*	12-28
17 trans-1,2-Dichloro	20.0	18.7	93.71*	14-26
25 1,1-Dichloroethane	20.0	20.0	100.30*	15-26
29 cis-1,2-Dichloroet	20.0	18.4	92.12	0-100
34 Chloroform	20.0	20.8	103.91*	14-27
38 1,1,1-Trichloroeth	20.0	20.8	103.82*	15-25
35 Carbon Tetrachlori	20.0	20.0	100.16*	15-25
41 Benzene	20.0	19.4	97.27*	13-27
47 1,2-Dichloroethane	20.0	19.9	99.37*	14-26
48 Trichloroethene	20.0	18.0	89.90*	13-27
51 1,2-Dichloropropan	20.0	18.7	93.66*	7-33
52 Bromodichlorometha	20.0	19.7	98.49*	13-27
56 2-Chloroethylvinyl	20.0	24.7	123.46*	0-45
53 cis-1,3-dichloropr	20.0	19.7	98.72*	5-35
57 Toluene	20.0	19.1	95.33*	15-25
60 trans-1,3-Dichloro	20.0	20.2	100.79*	10-30
61 1,1,2-Trichloroeth	20.0	18.5	92.31*	14-26
59 Tetrachloroethene	20.0	16.8	84.23*	15-25
62 Dibromochlorometha	20.0	18.2	90.79*	14-27
67 Chlorobenzene	20.0	17.8	89.11*	13-27
68 Ethylbenzene	20.0	18.1	90.65*	12-28
74 Bromoform	20.0	18.1	90.31*	14-26
81 1,1,2,2-Tetrachlor	20.0	17.9	89.35*	12-28
90 1,3-Dichlorobenzen	20.0	17.9	89.34*	15-25
92 1,4-Dichlorobenzen	20.0	17.2	86.18*	13-27
95 1,2-Dichlorobenzen	20.0	18.1	90.42*	13-27

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	49.3	98.68	68-128

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0996.D
Report Date: 21-Jan-2015 13:31

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 45 1,2-Dichloroethane	50.0	55.6	111.15	67-135
$ 55 Toluene-D8	50.0	50.1	100.27	65-128
$ 76 P-Bromofluorobenze	50.0	49.4	98.71	56-133

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0996.D
Report Date: 21-Jan-2015 13:32

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C011515.b\C0996.D
Lab Smp Id: WG157009-4
Inj Date : 15-JAN-2015 10:29 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157009-4,SI0230
Misc Info : WG157009,WG157320-3,SI0230-2
Comment :
Method : \\target_server\gg\chem\gcms-c.i\C011515.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T1

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.995	1.993	(0.248)	104591	17.7471	17.7	
2	Chloromethane	50	2.231	2.229	(0.277)	129192	15.9626	16.0(R)	
3	Vinyl chloride	62	2.331	2.329	(0.290)	107835	18.6866	18.7(R)	
4	Bromomethane	94	2.731	2.729	(0.340)	37212	13.3691	13.4(R)	
5	Chloroethane	64	2.881	2.879	(0.358)	48938	20.0544	20.0(R)	
6	Trichlorofluoromethane	101	3.053	3.058	(0.380)	161003	19.7300	19.7(R)	
7	Diethyl Ether	59	3.496	3.494	(0.435)	64129	19.4157	19.4	
8	Tertiary-butyl alcohol	59	5.354	5.353	(0.666)	31199	85.6105	85.6	
9	1,1-Dichloroethene	96	3.753	3.751	(0.467)	71294	18.4494	18.4(R)	
10	Carbon Disulfide	76	3.789	3.787	(0.471)	207095	17.8868	17.9	
11	Freon-113	151	3.818	3.809	(0.475)	50422	19.1696	19.2	
12	Iodomethane	142	3.961	3.959	(0.493)	31973	12.2988	12.3	
13	Acrolein	56	4.275	4.266	(0.532)	64549	88.1848	88.2	
14	Methylene Chloride	84	4.654	4.652	(0.579)	94272	18.3755	18.4(R)	
15	Acetone	43	4.754	4.752	(0.591)	162054	86.1111	86.1	
16	Isobutyl Alcohol	43	8.257	8.255	(1.027)	58078	330.468	330	
17	trans-1,2-Dichloroethene	96	4.918	4.917	(0.612)	79344	18.7423	18.7(R)	
18	Allyl Chloride	41	4.475	4.473	(0.556)	139236	20.8949	20.9	
19	Methyl tert-butyl ether	73	5.133	5.131	(0.638)	409209	41.6370	41.6	
20	Acetonitrile	39	5.547	5.546	(0.690)	32670	170.319	170	
21	Di-isopropyl ether	45	5.783	5.789	(0.719)	263482	20.7918	20.8	
22	Chloroprene	53	5.912	5.910	(0.735)	135527	21.7443	21.7	
23	Propionitrile	54	7.963	7.969	(0.990)	148340	190.515	190	

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0996.D
Report Date: 21-Jan-2015 13:32

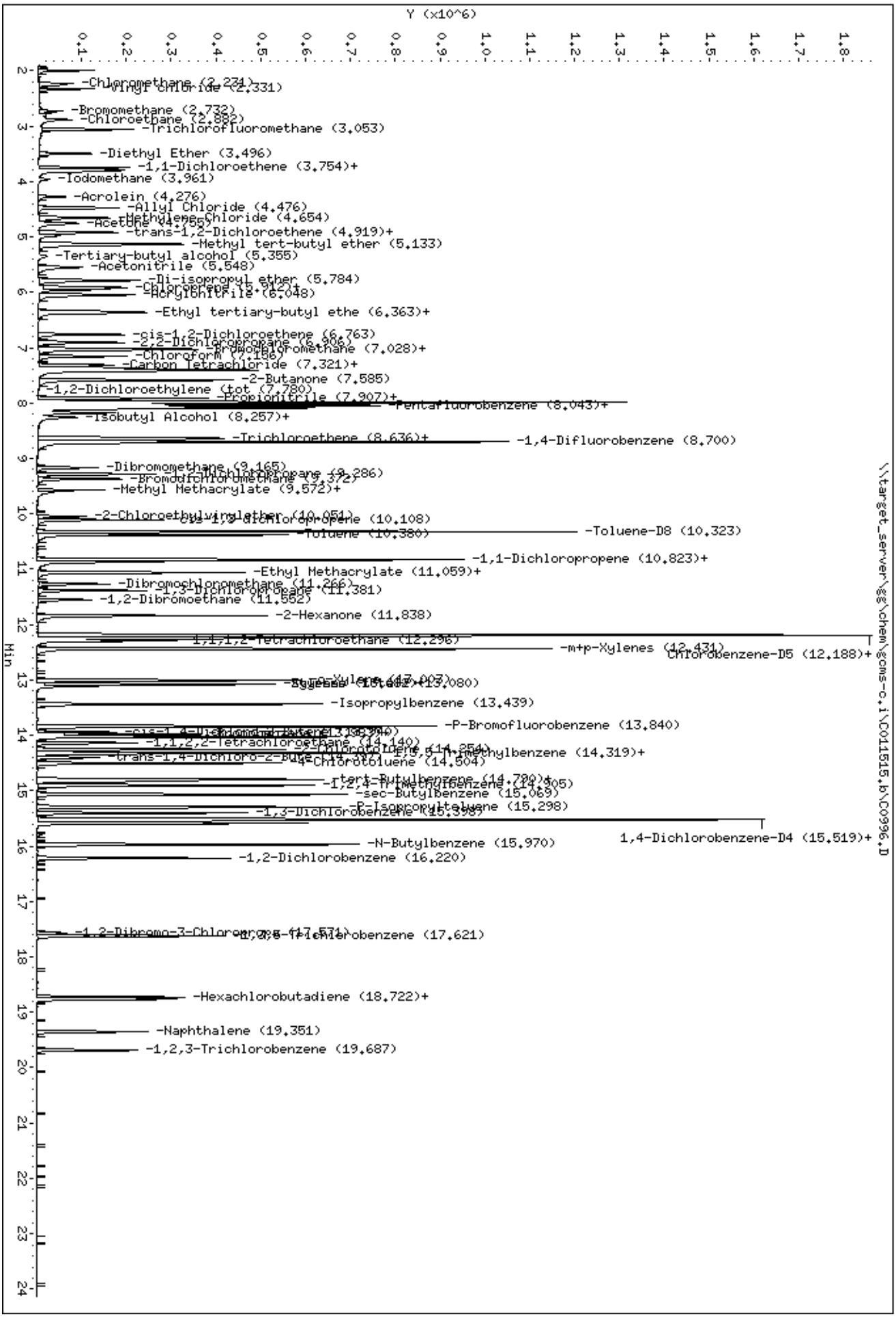
							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	24 Methacrylonitrile	41	7.985	7.990	(0.993)	652698	223.937	224	
	25 1,1-Dichloroethane	63	5.948	5.953	(0.740)	161808	20.0596	20.0(R)	
	26 Acrylonitrile	52	6.048	6.046	(0.752)	167662	98.2734	98.3	
	27 Ethyl tertiary-butyl ether	59	6.348	6.353	(0.789)	220562	21.2327	21.2	
	28 Vinyl Acetate	43	6.377	6.375	(0.733)	208816	19.7230	19.7	
	29 cis-1,2-Dichloroethene	96	6.763	6.761	(0.841)	85088	18.4235	18.4	
M	30 1,2-Dichloroethylene (total)	96				164432	37.1657	37.2	
	31 Methyl Methacrylate	41	9.572	9.570	(1.100)	77294	19.9405	19.9	
	32 2,2-Dichloropropane	77	6.906	6.911	(0.859)	134807	21.7148	21.7	
	33 Bromochloromethane	128	7.034	7.040	(0.875)	38386	18.8239	18.8	
	34 Chloroform	83	7.156	7.154	(0.890)	171352	20.7822	20.8(R)	
	35 Carbon Tetrachloride	117	7.313	7.318	(0.841)	119329	20.0315	20.0(R)	
	36 Tetrahydrofuran	42	7.363	7.361	(0.916)	151341	99.9698	100	
$	37 Dibromofluoromethane	113	7.399	7.404	(0.920)	195722	49.3405	49.3	
	38 1,1,1-Trichloroethane	97	7.413	7.418	(0.922)	148360	20.7635	20.8(R)	
	39 1,1-Dichloropropene	75	10.866	10.871	(1.249)	123913	20.1583	20.2	
	40 2-Butanone	43	7.585	7.583	(0.943)	229912	94.9324	94.9	
	41 Benzene	78	7.906	7.912	(0.909)	342360	19.4542	19.4(R)	
*	42 Pentafluorobenzene	168	8.042	8.039	(1.000)	426057	50.0000		
	43 Cyclohexane	56	7.020	7.025	(0.873)	147681	20.8571	20.8	
	44 Ethyl Methacrylate	69	11.059	11.057	(1.271)	98744	19.4912	19.5	
$	45 1,2-Dichloroethane-D4	65	8.092	8.090	(1.006)	279074	55.5729	55.6	
	46 Tertiary-amyl methyl ether	73	8.085	8.083	(1.005)	173799	19.3827	19.4	
	47 1,2-Dichloroethane	62	8.178	8.176	(0.940)	129464	19.8737	19.9(R)	
	48 Trichloroethene	95	8.650	8.654	(0.994)	83412	17.9803	18.0(R)	
*	49 1,4-Difluorobenzene	114	8.700	8.705	(1.000)	735895	50.0000		
	50 Dibromomethane	93	9.164	9.162	(1.053)	50691	17.5217	17.5	
	51 1,2-Dichloropropane	63	9.286	9.284	(1.067)	83257	18.7312	18.7(R)	
	52 Bromodichloromethane	83	9.372	9.370	(1.077)	121277	19.6972	19.7(R)	
	53 cis-1,3-dichloropropene	75	10.108	10.113	(1.162)	142858	19.7439	19.7(R)	
	54 1,4-Dioxane	88	9.615	9.613	(1.105)	21902	282.452	282	
$	55 Toluene-D8	98	10.322	10.320	(1.186)	710350	50.1341	50.1	
	56 2-Chloroethylvinylether	63	10.051	10.049	(1.155)	41192	24.6924	24.7(R)	
	57 Toluene	92	10.379	10.378	(1.193)	210122	19.0663	19.1(R)	
	58 4-methyl-2-pentanone	43	10.830	10.828	(1.245)	478699	105.987	106	
	59 Tetrachloroethene	164	10.823	10.821	(0.888)	66699	16.8452	16.8(R)	
	60 trans-1,3-Dichloropropene	75	10.866	10.871	(1.249)	123913	20.1583	20.2(R)	
	61 1,1,2-Trichloroethane	83	11.059	11.057	(1.271)	65580	18.4616	18.5(R)	
	62 Dibromochloromethane	129	11.266	11.271	(0.924)	83890	18.1585	18.2(R)	
	63 1,3-Dichloropropane	76	11.380	11.385	(0.934)	139213	19.1474	19.1	
	64 1,2-Dibromoethane	107	11.552	11.557	(1.328)	80282	17.7090	17.7	
	65 2-Hexanone	43	11.838	11.836	(0.971)	344604	100.682	101	
*	66 Chlorobenzene-D5	117	12.188	12.193	(1.000)	757120	50.0000		
	67 Chlorobenzene	112	12.209	12.215	(1.002)	241085	17.8226	17.8(R)	
	152 1-Chlorohexane	91	12.181	12.186	(1.515)	134929	19.0387	19.0	
	68 Ethylbenzene	106	12.245	12.250	(1.005)	126642	18.1302	18.1(R)	
	69 1,1,1,2-Tetrachloroethane	131	12.295	12.293	(1.009)	83522	18.9330	18.9	
M	70 Xylenes (total)	106				482217	56.8041	56.8	
	71 m+p-Xylenes	106	12.438	12.436	(1.021)	324561	38.0810	38.1	
	72 o-Xylene	106	13.010	13.008	(1.067)	157656	18.7231	18.7	
	73 Styrene	104	13.081	13.080	(1.073)	245869	19.0654	19.1	
	74 Bromoform	173	13.117	13.115	(1.076)	53987	18.0613	18.1(R)	
	75 Isopropylbenzene	105	13.439	13.437	(0.866)	441628	20.1593	20.2	
$	76 P-Bromofluorobenzene	95	13.839	13.837	(1.591)	314002	49.3573	49.4	

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0996.D
Report Date: 21-Jan-2015 13:32

			QUANT SIG					CONCENTRATIONS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	77	cis-1,4-Dichloro-2-Butene	53	13.939	13.937	(0.898)	44424	19.8970	19.9	
	78	trans-1,4-Dichloro-2-Butene	53	14.397	14.402	(0.928)	34604	19.7897	19.8	
	79	Bromobenzene	156	13.989	13.987	(0.901)	98417	17.4228	17.4	
	80	N-Propylbenzene	91	14.025	14.030	(0.904)	558366	20.5974	20.6	
	81	1,1,2,2-Tetrachloroethane	83	14.139	14.137	(0.911)	120480	17.8692	17.9(R)	
	82	1,3,5-Trimethylbenzene	105	14.318	14.316	(0.923)	380118	20.6058	20.6	
	83	2-Chlorotoluene	91	14.254	14.252	(0.918)	336689	19.8661	19.9	
	84	1,2,3-Trichloropropane	75	14.332	14.330	(0.924)	101914	18.4384	18.4	
	85	4-Chlorotoluene	91	14.504	14.502	(0.935)	349685	20.3300	20.3	
	86	tert-Butylbenzene	119	14.790	14.795	(0.953)	381872	19.4217	19.4	
	87	Pentachloroethane	117	14.826	14.824	(0.955)	78767	19.0501	19.0	
	88	1,2,4-Trimethylbenzene	105	14.904	14.902	(0.960)	366851	20.0924	20.1	
	89	P-Isopropyltoluene	119	15.297	15.295	(0.986)	413485	20.4152	20.4	
	90	1,3-Dichlorobenzene	146	15.405	15.403	(0.993)	203987	17.8673	17.9(R)	
*	91	1,4-Dichlorobenzene-D4	152	15.519	15.517	(1.000)	417579	50.0000		
	92	1,4-Dichlorobenzene	146	15.540	15.546	(1.001)	197239	17.2354	17.2(R)	
	93	N-Butylbenzene	91	15.969	15.967	(1.029)	427650	21.7219	21.7	
	94	sec-Butylbenzene	105	15.069	15.067	(0.971)	528615	20.8594	20.8	
	95	1,2-Dichlorobenzene	146	16.219	16.218	(1.045)	184568	18.0847	18.1(R)	
	96	1,2-Dibromo-3-Chloropropane	75	17.570	17.569	(1.132)	20849	17.4923	17.5	
	97	1,3,5-Trichlorobenzene	180	17.628	17.626	(1.136)	139572	17.9256	17.9	
	98	Hexachlorobutadiene	225	18.728	18.726	(1.207)	67430	18.3971	18.4	
	99	1,2,4-Trichlorobenzene	180	18.764	18.762	(1.209)	98976	17.5125	17.5	
	100	1,2,3-Trimethylbenzene	105	15.583	15.589	(1.004)	368975	20.0104	20.0	
	101	Naphthalene	128	19.350	19.348	(1.247)	202812	17.0899	17.1	
	102	1,2,3-Trichlorobenzene	180	19.686	19.684	(1.269)	72044	16.1456	16.1	
	103	Methyl Acetate	43	4.976	4.974	(0.619)	78434	19.0477	19.0	
	104	Methylcyclohexane	83	8.628	8.625	(1.073)	142559	21.2984	21.3	
M	153	Total Alkylbenzenes	100				3498585	163.873	164	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Min
Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0996.D
Date : 15-JAN-2015 10:29
Client ID:
Sample Info: WG157009-4,SI0230
Instrument: gcms-c.i
-Chloromethane (2.224)
-Vinyl Chloride (2.331)
-Bromomethane (2.732)
-Chloroethane (2.882)
-Trichlorofluoromethane (3.053)
-Diethyl Ether (3.496)
-1,1-Dichloroethene (3.754)+
-Iodomethane (3.961)
-Acrolein (4.276)
-Allyl Chloride (4.476)
-Methylene Chloride (4.654)
-Acetone (4.755)
-trans-1,2-Dichloroethene (4.919)+
-Methyl tert-butyl ether (5.133)
-Tertiary-butyl alcohol (5.355)
-Acetonitrile (5.548)
-Di-isopropyl ether (5.784)
-Chloroprene (5.912)
-Acrylonitrile (6.048)
-Ethyl tertiary-butyl ethe (6.363)+
-cis-1,2-Dichloroethene (6.763)
-2,2-Dichloropropane (6.906)
-Bromochloromethane (7.028)+
-Chloroform (7.156)
-Carbon Tetrachloride (7.321)+
-2-Butanone (7.585)
-1,2-Dichloroethylene (tot (7.780)
-Propionitrile (7.907)+
-Pentafluorobenzene (8.043)+
-Isobutyl Alcohol (8.257)+
-Trichloroethene (8.636)+
-1,4-Difluorobenzene (8.700)
-Dibromomethane (9.165)
-1,1-Dichloropropane (9.286)
-Bromodichloromethane (9.372)
-Methyl Methacrylate (9.572)+
-2-Chloroethyl vinyl ether (10.051)
cis-1,3-Dichloropropene (10.108)
-Toluene (10.380)
-Toluene-D8 (10.323)
-1,1-Dichloropropene (10.823)+
-Ethyl Methacrylate (11.059)+
-Dibromochloromethane (11.266)
-1,3-Dichloropropane (11.381)
-1,2-Dibromoethane (11.552)
-2-Hexanone (11.838)
1,1,1,2-Tetrachloroethane (12.296)
-m+p-Xylenes (12.431)
Chlorobenzene-D5 (12.188)+
-Styrene (12.980)+
-Isopropylbenzene (13.439)
-P-Bromofluorobenzene (13.840)
-1,1,2,2-Tetrachloroethane (14.140)
-trans-1,4-Dichloro-2-Bute
-1,2,4-Trimethylbenzene (14.319)+
-sec-Butylbenzene (15.069)
-1,3-Dichlorobenzene (15.398)
1,4-Dichlorobenzene-D4 (15.519)+
-N-Butylbenzene (15.970)
-1,2-Dichlorobenzene (16.220)
-1,2,3-Trichlorobenzene (17.621)
-Hexachlorobutadiene (18.722)+
-Naphthalene (19.351)
-1,2,3-Trichlorobenzene (19.687)

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1016.D
Report Date: 21-Jan-2015 13:37

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa02236
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG157065-4
Level: LOW Operator: REC
Data Type: MS DATA SampleType: LCS
SpikeList File: E624cc.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\TARGET_SERVER\GG\chem\gcms-c.i\C011615.b\C624a27.m
Misc Info: WG157065,WG157320-3,SI0230-4

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
2 Chloromethane	20.0	14.3	71.36*	0-41
3 Vinyl chloride	20.0	16.0	80.26*	1-39
4 Bromomethane	20.0	10.1	50.73*	3-37
5 Chloroethane	20.0	19.6	97.94*	8-32
6 Trichlorofluoromet	20.0	18.9	94.66*	10-30
9 1,1-Dichloroethene	20.0	16.9	84.74*	10-30
14 Methylene Chloride	20.0	17.6	87.76*	12-28
17 trans-1,2-Dichloro	20.0	17.5	87.33*	14-26
25 1,1-Dichloroethane	20.0	19.6	97.78*	15-26
29 cis-1,2-Dichloroet	20.0	17.3	86.61	0-100
34 Chloroform	20.0	20.4	102.01*	14-27
38 1,1,1-Trichloroeth	20.0	21.6	107.80*	15-25
35 Carbon Tetrachlori	20.0	20.6	103.03*	15-25
41 Benzene	20.0	18.6	93.17*	13-27
47 1,2-Dichloroethane	20.0	21.1	105.30*	14-26
48 Trichloroethene	20.0	19.3	96.34*	13-27
51 1,2-Dichloropropan	20.0	18.5	92.60*	7-33
52 Bromodichlorometha	20.0	20.5	102.31*	13-27
56 2-Chloroethylvinyl	20.0	9.6	47.79*	0-45
53 cis-1,3-dichloropr	20.0	19.2	95.84*	5-35
57 Toluene	20.0	19.1	95.71*	15-25
60 trans-1,3-Dichloro	20.0	19.4	97.14*	10-30
61 1,1,2-Trichloroeth	20.0	17.6	88.09*	14-26
59 Tetrachloroethene	20.0	17.5	87.39*	15-25
62 Dibromochlorometha	20.0	18.6	93.08*	14-27
67 Chlorobenzene	20.0	17.8	89.21*	13-27
68 Ethylbenzene	20.0	18.4	92.05*	12-28
74 Bromoform	20.0	17.6	88.21*	14-26
81 1,1,2,2-Tetrachlor	20.0	16.6	83.03*	12-28
90 1,3-Dichlorobenzen	20.0	17.8	88.76*	15-25
92 1,4-Dichlorobenzen	20.0	17.0	85.28*	13-27
95 1,2-Dichlorobenzen	20.0	17.7	88.57*	13-27

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	51.0	102.02	68-128

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1016.D
Report Date: 21-Jan-2015 13:37

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 45 1,2-Dichloroethane	50.0	56.9	113.89	67-135
$ 55 Toluene-D8	50.0	49.5	99.00	65-128
$ 76 P-Bromofluorobenze	50.0	50.0	99.99	56-133

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1016.D
Report Date: 21-Jan-2015 13:35

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C011615.b\C1016.D
Lab Smp Id: WG157065-4
Inj Date : 16-JAN-2015 10:24 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157065-4,SI0230
Misc Info : WG157065,WG157320-3,SI0230-4
Comment :
Method : \\TARGET_SERVER\GG\chem\gcms-c.i\C011615.b\C624a27.m
Meth Date : 21-Jan-2015 13:35 gcms-c.i Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.994	1.993	(0.248)	81106	20.0000	14.6	
2	Chloromethane	50	2.230	2.229	(0.277)	108893	20.0000	14.3	
3	Vinyl chloride	62	2.330	2.329	(0.290)	87325	20.0000	16.0	
4	Bromomethane	94	2.731	2.729	(0.340)	26619	20.0000	10.1	
5	Chloroethane	64	2.881	2.879	(0.358)	45059	20.0000	19.6	
6	Trichlorofluoromethane	101	3.059	3.058	(0.380)	145637	20.0000	18.9	
7	Diethyl Ether	59	3.495	3.494	(0.435)	52361	20.0000	16.8	
8	Tertiary-butyl alcohol	59	5.347	5.353	(0.665)	20489	100.000	59.6	
9	1,1-Dichloroethene	96	3.753	3.751	(0.467)	61740	20.0000	16.9	
10	Carbon Disulfide	76	3.789	3.787	(0.471)	179717	20.0000	16.5	
11	Freon-113	151	3.810	3.809	(0.474)	44583	20.0000	18.0	
12	Iodomethane	142	3.960	3.959	(0.492)	26094	20.0000	10.6	
13	Acrolein	56	4.267	4.266	(0.531)	46961	100.000	68.0	
14	Methylene Chloride	84	4.653	4.652	(0.579)	84884	20.0000	17.6	
15	Acetone	43	4.761	4.752	(0.592)	133989	100.000	75.5	
16	Isobutyl Alcohol	43	8.256	8.255	(1.027)	35793	400.000	216	
17	trans-1,2-Dichloroethene	96	4.918	4.917	(0.612)	69704	20.0000	17.5	
18	Allyl Chloride	41	4.475	4.473	(0.556)	112479	20.0000	17.9	
19	Methyl tert-butyl ether	73	5.132	5.131	(0.638)	347088	40.0000	37.5	
20	Acetonitrile	39	5.547	5.546	(0.690)	26423	200.000	146	
21	Di-isopropyl ether	45	5.790	5.789	(0.720)	219292	20.0000	18.4	
22	Chloroprene	53	5.912	5.910	(0.735)	121639	20.0000	20.7	
23	Propionitrile	54	7.963	7.969	(0.990)	116999	200.000	159	
24	Methacrylonitrile	41	7.992	7.990	(0.994)	544006	200.000	198	

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1016.D
Report Date: 21-Jan-2015 13:35

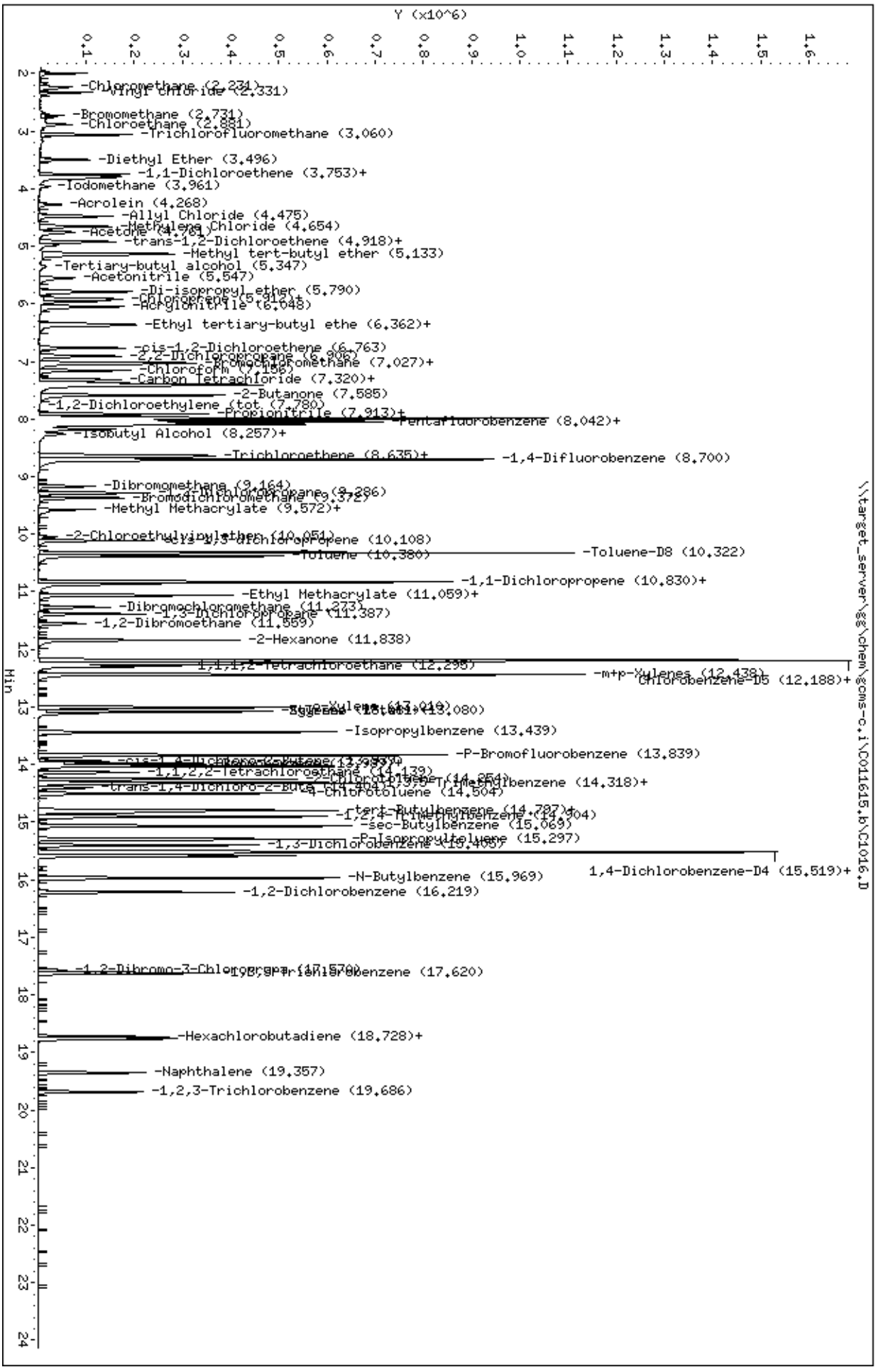
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.947	5.953	(0.740)	148709	20.0000	19.6	
	26 Acrylonitrile	52	6.047	6.046	(0.752)	129837	100.000	80.7	
	27 Ethyl tertiary-butyl ether	59	6.355	6.353	(0.790)	183439	20.0000	18.7	
	28 Vinyl Acetate	43	6.376	6.375	(0.733)	177410	20.0000	18.2	
	29 cis-1,2-Dichloroethene	96	6.762	6.761	(0.841)	75414	20.0000	17.3	
M	30 1,2-Dichloroethylene (total)	96				145118	20.0000	(a)	
	31 Methyl Methacrylate	41	9.571	9.570	(1.100)	61368	20.0000	17.2	
	32 2,2-Dichloropropane	77	6.905	6.911	(0.859)	122202	20.0000	20.9	
	33 Bromochloromethane	128	7.034	7.040	(0.875)	34553	20.0000	18.0	
	34 Chloroform	83	7.155	7.154	(0.890)	158566	20.0000	20.4	
	35 Carbon Tetrachloride	117	7.320	7.318	(0.841)	112810	20.0000	20.6	
	36 Tetrahydrofuran	42	7.370	7.361	(0.916)	119240	100.000	83.6	
$	37 Dibromofluoromethane	113	7.405	7.404	(0.921)	190743	20.0000	51.0	
	38 1,1,1-Trichloroethane	97	7.413	7.418	(0.922)	145223	20.0000	21.6	
	39 1,1-Dichloropropene	75	10.872	10.871	(1.250)	109758	20.0000	19.4	
	40 2-Butanone	43	7.584	7.583	(0.943)	195083	100.000	85.4	
	41 Benzene	78	7.913	7.912	(0.910)	301367	20.0000	18.6	
*	42 Pentafluorobenzene	168	8.042	8.039	(1.000)	401630	50.0000		
	43 Cyclohexane	56	7.019	7.025	(0.873)	127125	20.0000	19.0	
	44 Ethyl Methacrylate	69	11.058	11.057	(1.271)	84507	20.0000	18.2	
$	45 1,2-Dichloroethane-D4	65	8.092	8.090	(1.006)	269568	20.0000	56.9	
	46 Tertiary-amyl methyl ether	73	8.085	8.083	(1.005)	154367	20.0000	18.3	
	47 1,2-Dichloroethane	62	8.177	8.176	(0.940)	126086	20.0000	21.1	
	48 Trichloroethene	95	8.649	8.654	(0.994)	82145	20.0000	19.3	
*	49 1,4-Difluorobenzene	114	8.699	8.705	(1.000)	676311	50.0000		
	50 Dibromomethane	93	9.164	9.162	(1.053)	46884	20.0000	17.6	
	51 1,2-Dichloropropane	63	9.285	9.284	(1.067)	75653	20.0000	18.5	
	52 Bromodichloromethane	83	9.371	9.370	(1.077)	115784	20.0000	20.5	
	53 cis-1,3-dichloropropene	75	10.115	10.113	(1.163)	127456	20.0000	19.2	
	54 1,4-Dioxane	88	9.607	9.613	(1.104)	8678	400.000	122	
$	55 Toluene-D8	98	10.322	10.320	(1.187)	644546	20.0000	49.5	
	56 2-Chloroethylvinylether	63	10.050	10.049	(1.155)	14655	20.0000	9.6	
	57 Toluene	92	10.379	10.378	(1.193)	193867	20.0000	19.1	
	58 4-methyl-2-pentanone	43	10.829	10.828	(1.245)	399862	100.000	96.3	
	59 Tetrachloroethene	164	10.822	10.821	(0.888)	63921	20.0000	17.5	
	60 trans-1,3-Dichloropropene	75	10.872	10.871	(1.250)	109758	20.0000	19.4	
	61 1,1,2-Trichloroethane	83	11.058	11.057	(1.271)	57519	20.0000	17.6	
	62 Dibromochloromethane	129	11.273	11.271	(0.925)	79443	20.0000	18.6	
	63 1,3-Dichloropropane	76	11.380	11.385	(0.934)	127632	20.0000	19.0	
	64 1,2-Dibromoethane	107	11.558	11.557	(1.329)	70250	20.0000	16.9	
	65 2-Hexanone	43	11.837	11.836	(0.971)	284678	100.000	90.0	
*	66 Chlorobenzene-D5	117	12.187	12.193	(1.000)	699338	50.0000		
	67 Chlorobenzene	112	12.216	12.215	(1.002)	222922	20.0000	17.8	
	152 1-Chlorohexane	91	12.187	12.186	(1.516)	120363	20.0000	18.0	
	68 Ethylbenzene	106	12.245	12.250	(1.005)	118777	20.0000	18.4	
	69 1,1,1,2-Tetrachloroethane	131	12.295	12.293	(1.009)	76859	20.0000	18.9	
M	70 Xylenes (total)	106				442122	60.0000	(a)	
	71 m+p-Xylenes	106	12.438	12.436	(1.021)	300818	40.0000	38.2	
	72 o-Xylene	106	13.009	13.008	(1.067)	141304	20.0000	18.2	
	73 Styrene	104	13.081	13.080	(1.073)	228871	20.0000	19.2	
	74 Bromoform	173	13.117	13.115	(1.076)	48707	20.0000	17.6	
	75 Isopropylbenzene	105	13.438	13.437	(0.866)	411807	20.0000	19.5	
$	76 P-Bromofluorobenzene	95	13.839	13.837	(1.591)	292296	20.0000	50.0	
	77 cis-1,4-Dichloro-2-Butene	53	13.939	13.937	(0.898)	36656	20.0000	17.0	

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1016.D
Report Date: 21-Jan-2015 13:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.396	14.402	(0.928)	30310	20.0000	18.0	
79	Bromobenzene	156	13.989	13.987	(0.901)	93537	20.0000	17.2	
80	N-Propylbenzene	91	14.032	14.030	(0.904)	520536	20.0000	19.9	
81	1,1,2,2-Tetrachloroethane	83	14.139	14.137	(0.911)	107876	20.0000	16.6	
82	1,3,5-Trimethylbenzene	105	14.318	14.316	(0.923)	356987	20.0000	20.1	
83	2-Chlorotoluene	91	14.253	14.252	(0.918)	320878	20.0000	19.6	
84	1,2,3-Trichloropropane	75	14.332	14.330	(0.924)	93452	20.0000	17.5	
85	4-Chlorotoluene	91	14.503	14.502	(0.935)	328767	20.0000	19.8	
86	tert-Butylbenzene	119	14.796	14.795	(0.953)	362323	20.0000	19.1	
87	Pentachloroethane	117	14.825	14.824	(0.955)	70539	20.0000	17.7	
88	1,2,4-Trimethylbenzene	105	14.904	14.902	(0.960)	348235	20.0000	19.8	
89	P-Isopropyltoluene	119	15.297	15.295	(0.986)	383128	20.0000	19.6	
90	1,3-Dichlorobenzene	146	15.404	15.403	(0.993)	195275	20.0000	17.8	
* 91	1,4-Dichlorobenzene-D4	152	15.518	15.517	(1.000)	402358	50.0000		
92	1,4-Dichlorobenzene	146	15.540	15.546	(1.001)	188077	20.0000	17.0	
93	N-Butylbenzene	91	15.969	15.967	(1.029)	379389	20.0000	20.0	
94	sec-Butylbenzene	105	15.068	15.067	(0.971)	480257	20.0000	19.7	
95	1,2-Dichlorobenzene	146	16.219	16.218	(1.045)	174195	20.0000	17.7	
96	1,2-Dibromo-3-Chloropropane	75	17.570	17.569	(1.132)	18727	20.0000	16.3	
97	1,3,5-Trichlorobenzene	180	17.620	17.626	(1.135)	122664	20.0000	16.4	
98	Hexachlorobutadiene	225	18.728	18.726	(1.207)	53871	20.0000	15.2	
99	1,2,4-Trichlorobenzene	180	18.764	18.762	(1.209)	87944	20.0000	16.1	
100	1,2,3-Trimethylbenzene	105	15.583	15.589	(1.004)	333563	20.0000	18.8	
101	Naphthalene	128	19.357	19.348	(1.247)	184257	20.0000	16.1	
102	1,2,3-Trichlorobenzene	180	19.686	19.684	(1.269)	69460	20.0000	16.2	
103	Methyl Acetate	43	4.982	4.974	(0.620)	59395	20.0000	15.3	
104	Methylcyclohexane	83	8.628	8.625	(1.073)	119283	20.0000	18.9	
M 153	Total Alkylbenzenes	100				3242662	20.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Date : 16-JAN-2015 10:24
Client ID:
Sample Info: WG157065-4,SI0230
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.234)
-Vinyl chloride (2.331)
-Bromomethane (2.731)
-Chloroethane (2.881)
-Trichlorofluoromethane (3.060)
-Diethyl Ether (3.496)
-1,1-Dichloroethene (3.753)+
-Iodomethane (3.961)
-Acrolein (4.268)
-Allyl Chloride (4.475)
-Methylene Chloride (4.654)
-Acetone (4.761)
-trans-1,2-Dichloroethene (4.918)+
-Methyl tert-butyl ether (5.133)
-Tertiary-butyl alcohol (5.347)
-Acetonitrile (5.547)
-Di-isopropyl ether (5.790)
-Acrylonitrile (6.048)
-Ethyl tertiary-butyl ethe (6.362)+
-cis-1,2-Dichloroethene (6.763)
-2,2-Dichloropropane (6.906)
-Chloroform (7.156)
-Carbon Tetrachloride (7.320)+
-2-Butanone (7.585)
-1,2-Dichloroethylene (tot (7.780)
-Propionitrile (7.913)+
-Pentafluorobenzene (8.042)+
-Isobutyl Alcohol (8.257)+
-Trichloroethene (8.635)+
-1,4-Difluorobenzene (8.700)
-Dibromomethane (9.164)
-Bromodichloromethane (9.372)
-Methyl Methacrylate (9.572)+
-2-Chloroethylvinylether (10.051)
-Toluene (10.380)
-Toluene-D8 (10.322)
-1,1-Dichloropropene (10.830)+
-Ethyl Methacrylate (11.059)+
-Dibromochloromethane (11.273)
-1,2-Dibromoethane (11.559)
-2-Hexanone (11.838)
-m+p-Xylenes (12.438)
Chlorobenzene-D5 (12.188)+
-Isopropylbenzene (13.439)
-P-Bromofluorobenzene (13.839)
-1,1,2,2-Tetrachloroethane (14.139)
-trans-1,4-Dichloro-2-Bute
-4-Chlorotoluene (14.504)
-tert-Butylbenzene (14.797)+
-1,2,4-Trimethylbenzene (14.904)
-sec-Butylbenzene (15.069)
-P-Isopropyltoluene (15.297)
-1,3-Dichlorobenzene (15.405)
1,4-Dichlorobenzene-D4 (15.519)+
-N-Butylbenzene (15.969)
-1,2-Dichlorobenzene (16.219)
-1,2,3-Trichlorobenzene (17.620)
-Hexachlorobutadiene (18.728)+
-Naphthalene (19.357)
-1,2,3-Trichlorobenzene (19.686)
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Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\CB983A.D

Date : 29-DEC-2014 15:06

Client ID:

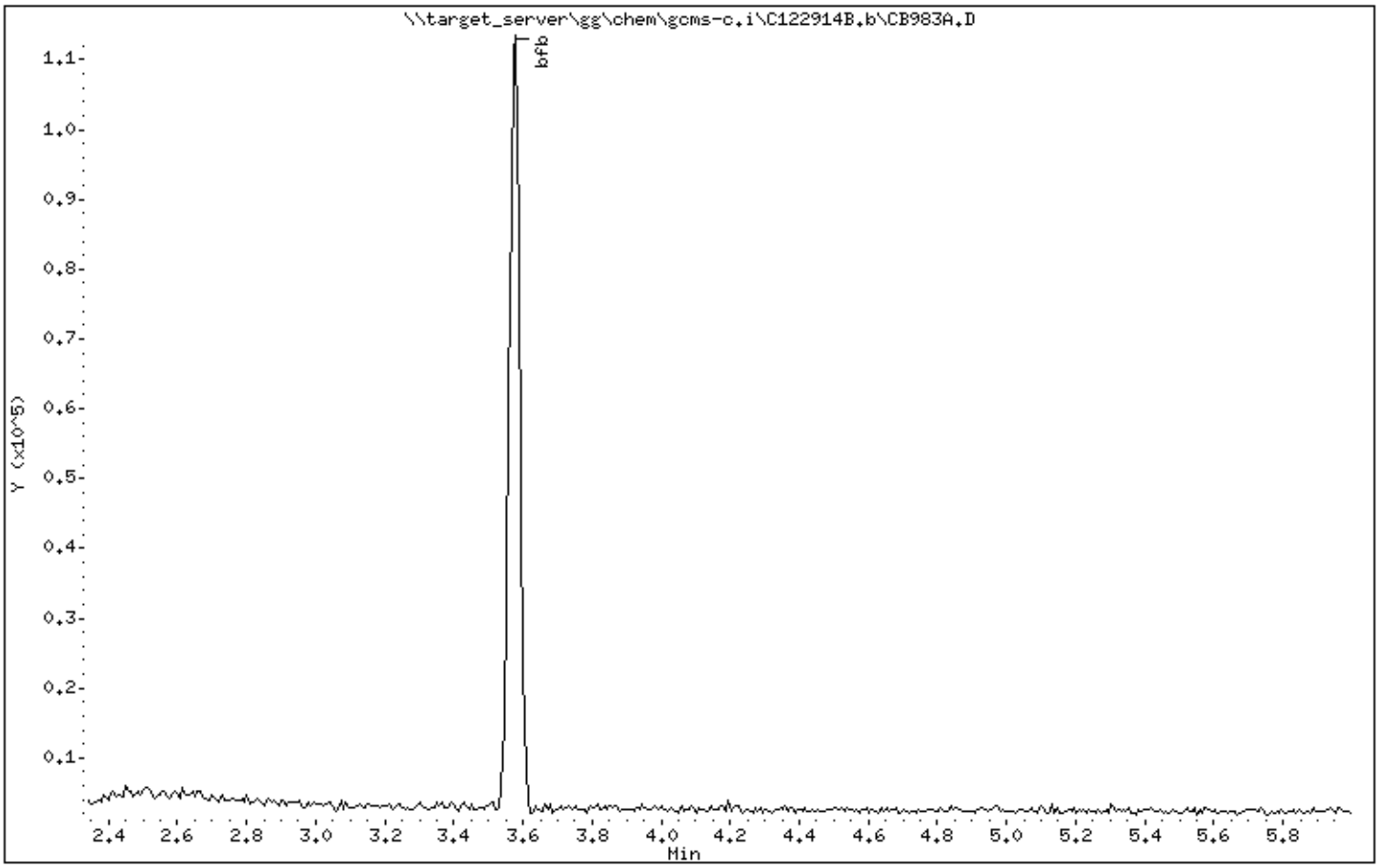
Instrument: gcms-c.i

Sample Info: WG157320-8,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



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Date : 29-DEC-2014 15:06

Client ID:

Instrument: gcms-c.i

Sample Info: WG157320-8,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

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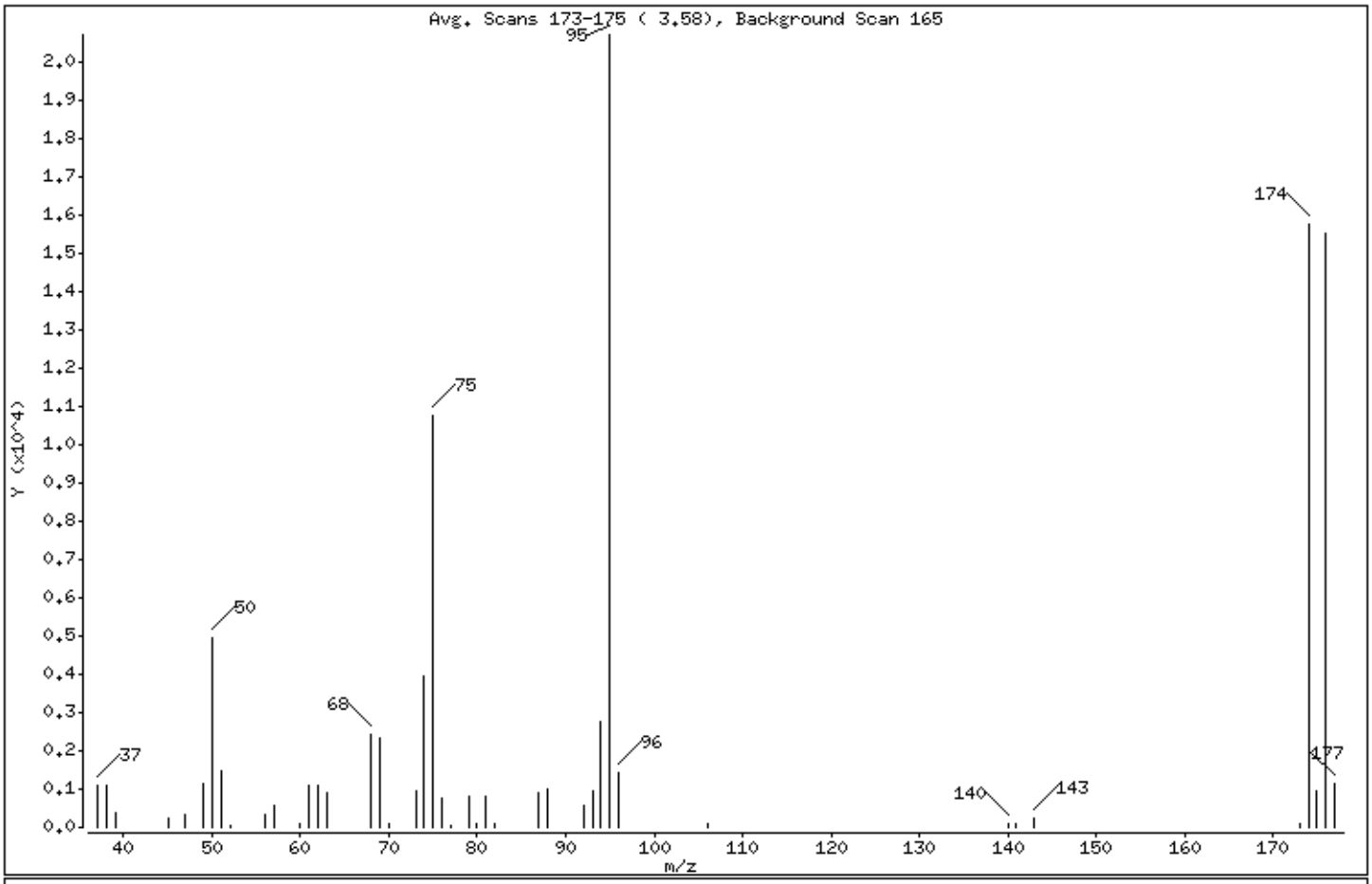

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.85
75	30.00 - 60.00% of mass 95	51.94
96	5.00 - 9.00% of mass 95	6.83
173	Less than 2.00% of mass 174	0.42 (0.55)
174	Greater than 50.00% of mass 95	76.15
175	5.00 - 9.00% of mass 174	4.60 (6.04)
176	95.00 - 101.00% of mass 174	75.00 (98.49)
177	5.00 - 9.00% of mass 176	5.42 (7.23)

Data File: \\target_server\gg\chem\gcms-c.i\C122914B.b\CB983A.D

Date : 29-DEC-2014 15:06

Client ID:

Instrument: gcms-c.i

Sample Info: WG157320-8,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: CB983A.D
Spectrum: Avg. Scans 173-175 (3.58), Background Scan 165
Location of Maximum: 95.00
Number of points: 43

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37.00	1086	60.00	83	77.00	71	96.00	1415
38.00	1072	61.00	1089	79.00	810	106.00	112
39.00	398	62.00	1118	80.00	86	140.00	104
45.00	235	63.00	887	81.00	814	141.00	79
47.00	331	68.00	2447	82.00	80	143.00	225
49.00	1133	69.00	2355	87.00	926	173.00	86
50.00	4939	70.00	92	88.00	1001	174.00	15773
51.00	1473	73.00	953	92.00	551	175.00	953
52.00	70	74.00	3971	93.00	949	176.00	15535
56.00	347	75.00	10757	94.00	2745	177.00	1123
57.00	561	76.00	778	95.00	20712		

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\CB993A.D

Date : 15-JAN-2015 08:44

Client ID:

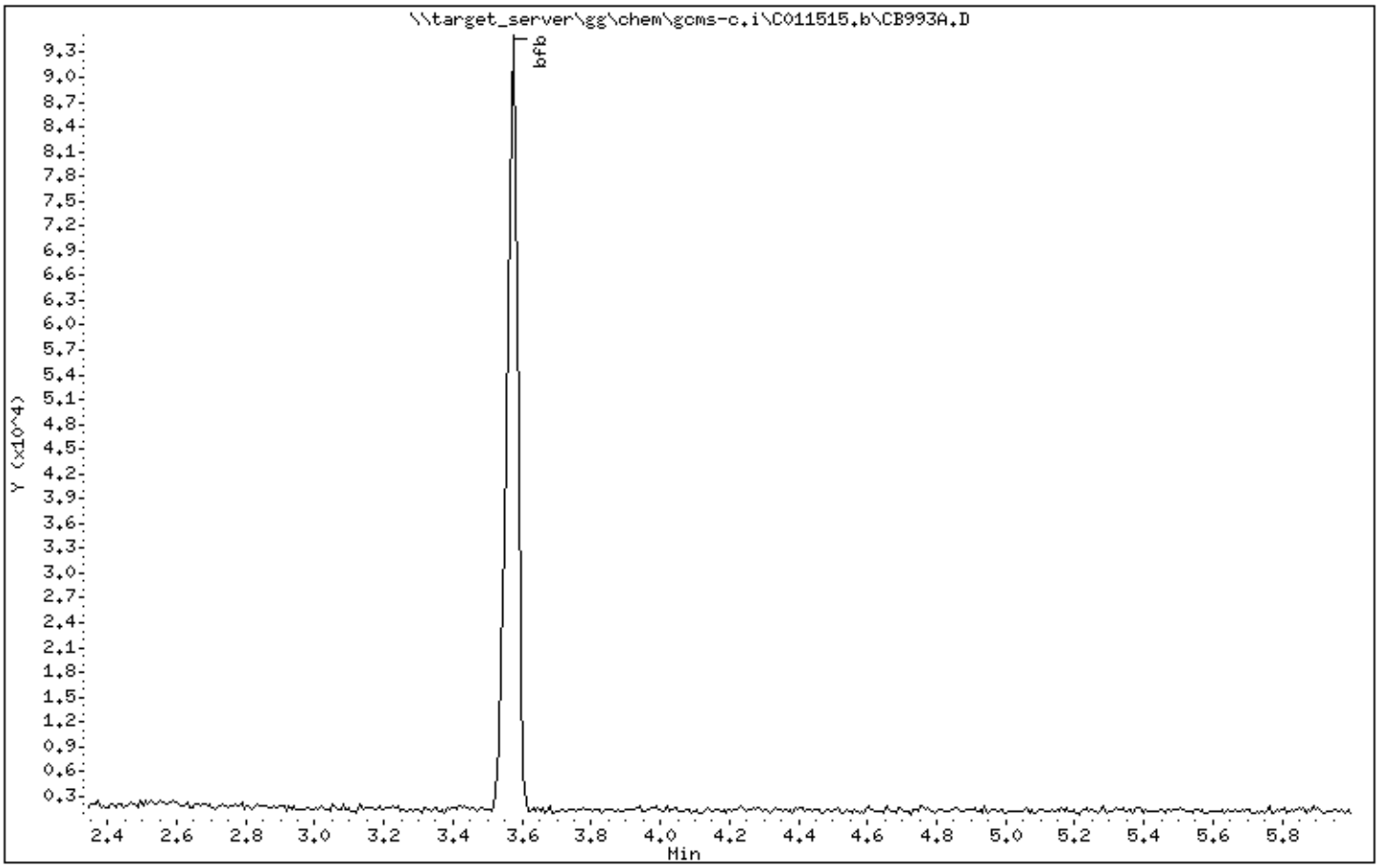
Instrument: gcms-c.i

Sample Info: WG157009-3,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



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Date : 15-JAN-2015 08:44

Client ID:

Instrument: gcms-c.i

Sample Info: WG157009-3,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

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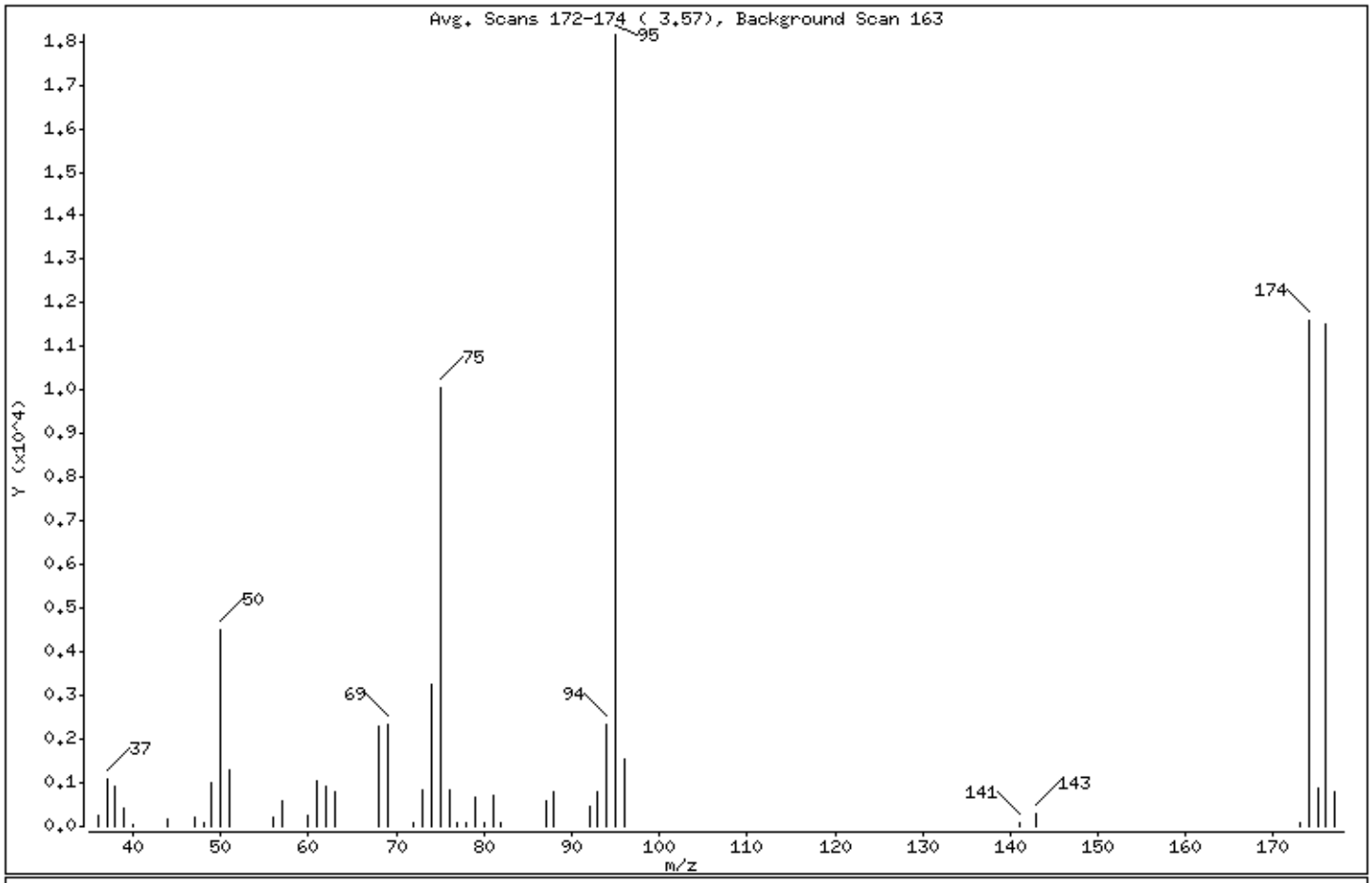

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.80
75	30.00 - 60.00% of mass 95	55.33
96	5.00 - 9.00% of mass 95	8.58
173	Less than 2.00% of mass 174	0.40 (0.63)
174	Greater than 50.00% of mass 95	63.97
175	5.00 - 9.00% of mass 174	4.81 (7.52)
176	95.00 - 101.00% of mass 174	63.49 (99.25)
177	5.00 - 9.00% of mass 176	4.43 (6.99)

Date : 15-JAN-2015 08:44

Client ID:

Instrument: gcms-c.i

Sample Info: WG157009-3,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: CB993A.D
Spectrum: Avg. Scans 172-174 (3.57), Background Scan 163
Location of Maximum: 95.00
Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	261	57.00	570	77.00	76	96.00	1557
37.00	1066	60.00	238	78.00	84	141.00	73
38.00	925	61.00	1041	79.00	648	143.00	297
39.00	426	62.00	918	80.00	68	173.00	73
40.00	27	63.00	811	81.00	700	174.00	11611
44.00	186	68.00	2293	82.00	75	175.00	873
47.00	210	69.00	2354	87.00	602	176.00	11524
48.00	86	72.00	88	88.00	780	177.00	805
49.00	985	73.00	846	92.00	456		
50.00	4501	74.00	3257	93.00	788		
51.00	1304	75.00	10043	94.00	2317		
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Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\CB994.D

Date : 16-JAN-2015 09:54

Client ID:

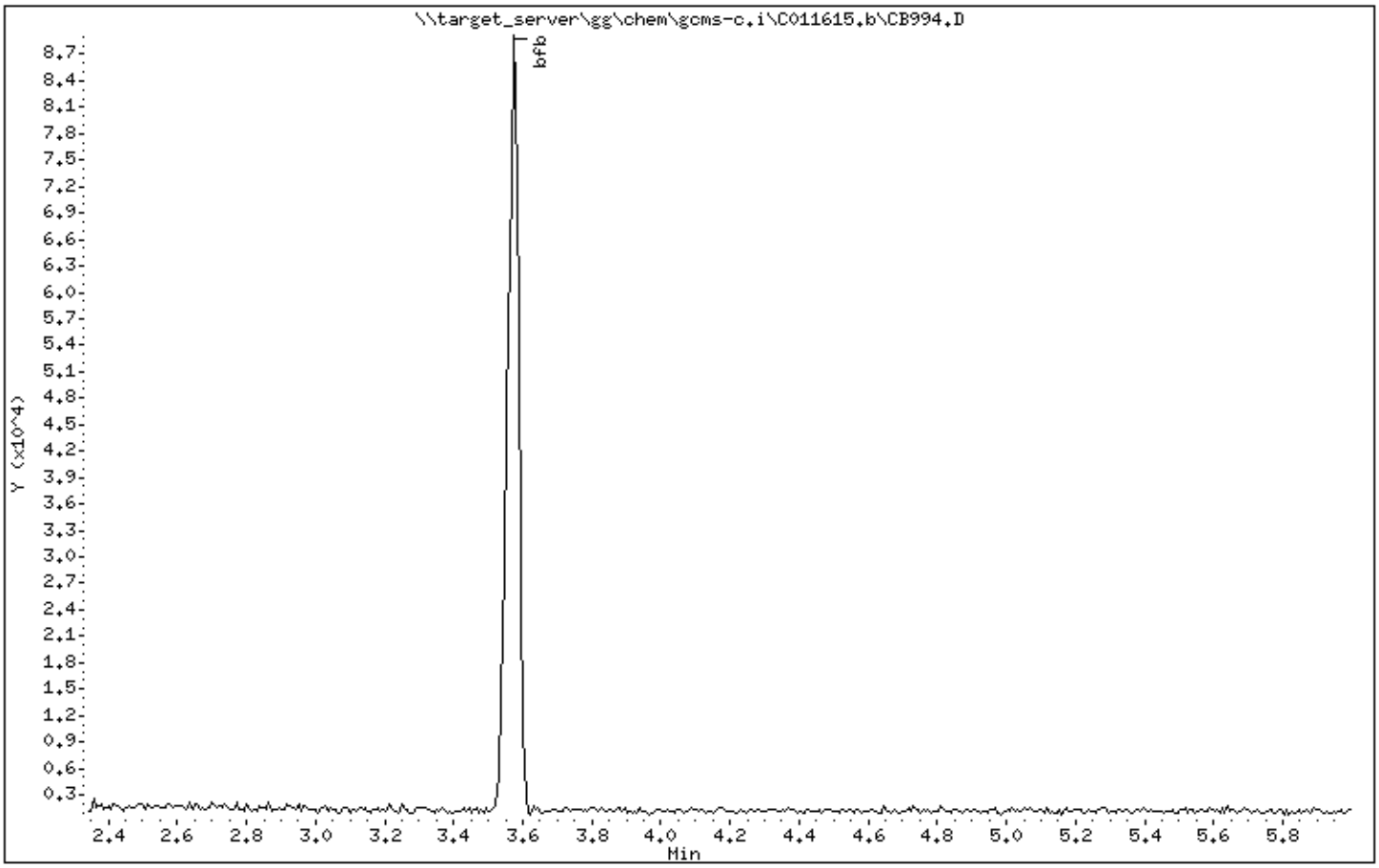
Instrument: gcms-c.i

Sample Info: WG157065-3,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



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Date : 16-JAN-2015 09:54

Client ID:

Instrument: gcms-c.i

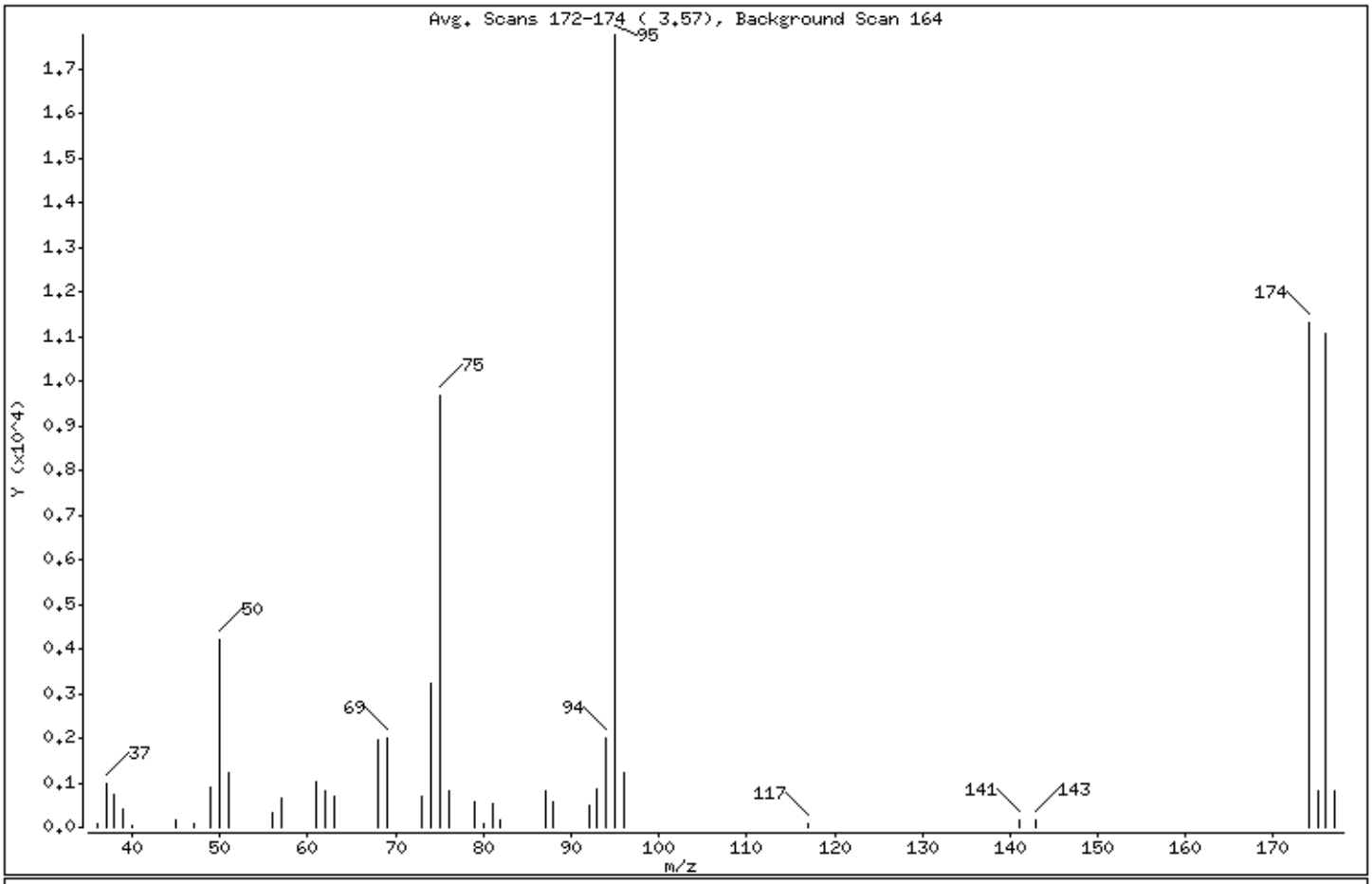
Sample Info: WG157065-3,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.78
75	30.00 - 60.00% of mass 95	54.53
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	63.73
175	5.00 - 9.00% of mass 174	4.65 (7.30)
176	95.00 - 101.00% of mass 174	62.27 (97.70)
177	5.00 - 9.00% of mass 176	4.64 (7.46)

Date : 16-JAN-2015 09:54

Client ID:

Instrument: gcms-c.i

Sample Info: WG157065-3,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: CB994.D
Spectrum: Avg. Scans 172-174 (3.57), Background Scan 164
Location of Maximum: 95.00
Number of points: 39

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	80	56.00	343	76.00	801	95.00	17768
37.00	974	57.00	639	79.00	578	96.00	1210
38.00	751	61.00	1013	80.00	101	117.00	71
39.00	421	62.00	814	81.00	528	141.00	175
40.00	23	63.00	686	82.00	151	143.00	173
45.00	158	68.00	1945	87.00	812	174.00	11324
47.00	68	69.00	2020	88.00	577	175.00	827
49.00	913	73.00	689	92.00	502	176.00	11064
50.00	4225	74.00	3222	93.00	838	177.00	825
51.00	1235	75.00	9689	94.00	2015		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG157009-2
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: C1003A.D

Sample Date:
Received Date:
Extract Date: 15-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157009

Analysis Date: 15-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	5	5.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	5	5.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	5	5.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	5	5.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	10	10.	1.1	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.25	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	5	5.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	5	5.0	0.22	0.50
Benzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	5	5.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	5	5.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.19	0.50
Toluene	U	0.50	ug/L	1	5	5.0	0.27	0.50
trans-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	5	5.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	5	5.0	0.30	0.50
Chlorobenzene	U	0.50	ug/L	1	5	5.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Bromoform	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	5	5.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.15	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Freon-113	U	0.50	ug/L	1	5	5.0	0.31	0.50
Acetone	U	2.5	ug/L	1	10	10.	2.2	2.5

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Report of Analytical Results

Client:
Lab ID: WG157009-2
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: C1003A.D

Sample Date:
Received Date:
Extract Date: 15-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157009

Analysis Date: 15-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Carbon Disulfide	U	0.50	ug/L	1	5	5.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	5	5.0	0.36	0.50
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	10	10.	0.21	1.0
2-Butanone	U	2.5	ug/L	1	10	10.	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	5	5.0	0.31	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
1,2-Dibromoethane	U	0.50	ug/L	1	5	5.0	0.22	0.50
Xylenes (Total)	U	1.5	ug/L	1	15	15.	0.25	1.5
M+P-Xylenes	U	1.0	ug/L	1	10	10.	0.59	1.0
o-Xylene	U	0.50	ug/L	1	5	5.0	0.25	0.50
Styrene	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,2-Dibromo-3-Chloropropane	U	0.50	ug/L	1	5	5.0	0.50	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	5	5.0	0.37	0.50
Isopropylbenzene	U	0.50	ug/L	1	5	5.0	0.23	0.50
Methyl Acetate	U	0.75	ug/L	1	5	5.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	5	5.0	0.30	0.50
1,2-Dichloroethane-D4		124.	%					
Toluene-D8		98.9	%					
P-Bromofluorobenzene		97.9	%					
Dibromofluoromethane		107.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1003A.D
Report Date: 21-Jan-2015 13:51

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C011515.b\C1003A.D
Lab Smp Id: WG157009-2 Client Smp ID: WG157009-Blank
Inj Date : 15-JAN-2015 14:30 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157009-2,SI0230
Misc Info : WG157009,WG157320-3,SI0230-2
Comment :
Method : \\target_server\gg\chem\gcms-c.i\C011515.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

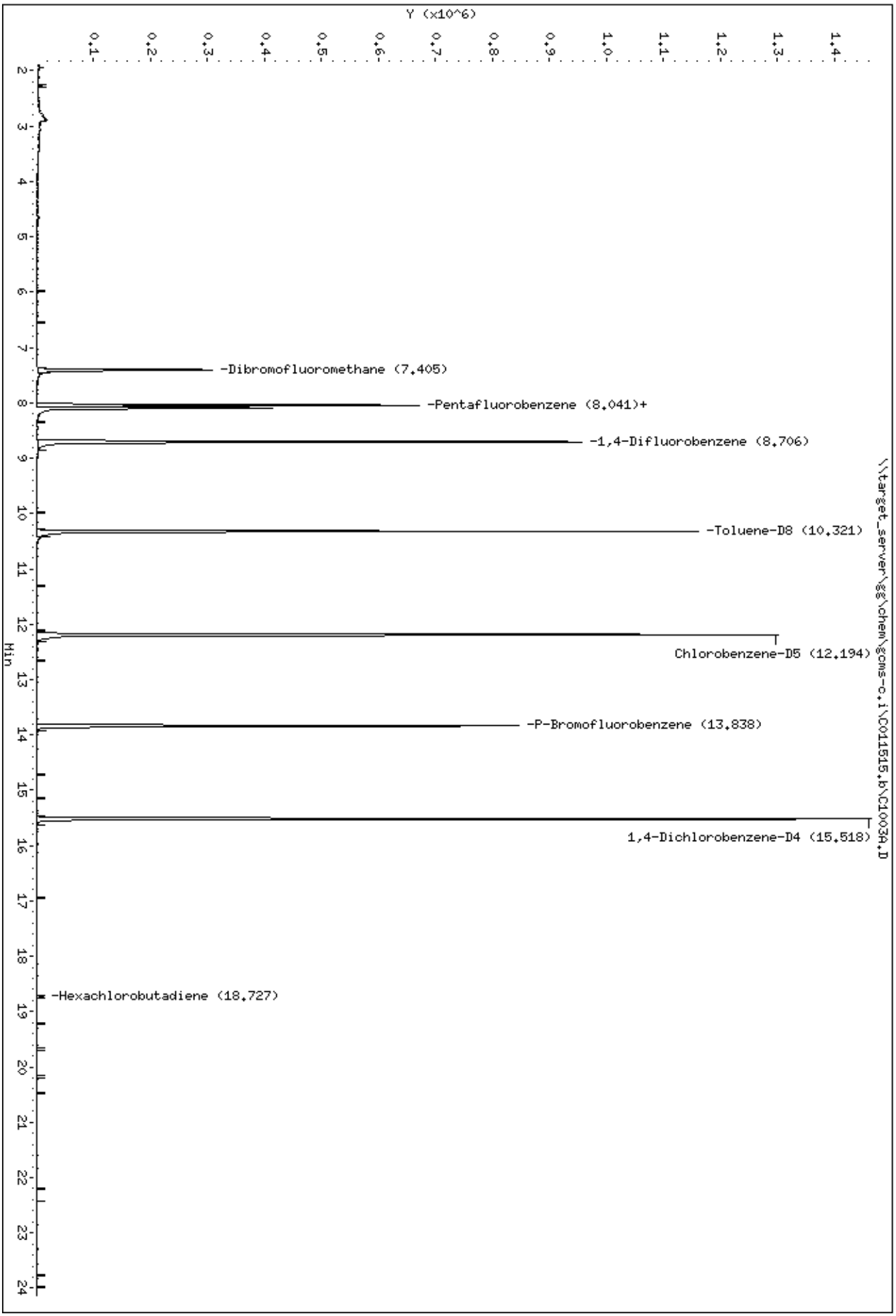
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.404	7.404	(0.921)	189786	53.4616	53.5	
* 42 Pentafluorobenzene	168	8.041	8.039	(1.000)	381289	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.091	8.090	(1.006)	279671	62.2307	62.2	
* 49 1,4-Difluorobenzene	114	8.705	8.705	(1.000)	686259	50.0000		
$ 55 Toluene-D8	98	10.321	10.320	(1.186)	653418	49.4515	49.4	
* 66 Chlorobenzene-D5	117	12.194	12.193	(1.000)	707120	50.0000		
$ 76 P-Bromofluorobenzene	95	13.838	13.837	(1.590)	290479	48.9622	49.0	
* 91 1,4-Dichlorobenzene-D4	152	15.517	15.517	(1.000)	373696	50.0000		
98 Hexachlorobutadiene	225	18.734	18.726	(1.207)	1743	0.53139	0.53(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Date : 15-JAN-2015 14:30
Client ID: WG157009-Blank
Sample Info: WG157009-2,SI0230
Instrument: gcms-c.i
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
-Dibromofluoromethane (7.405)
-Pentafluorobenzene (8.041)+
-1,4-Difluorobenzene (8.706)
-Toluene-D8 (10.321)
Chlorobenzene-D5 (12.194)
-P-Bromofluorobenzene (13.838)
1,4-Dichlorobenzene-D4 (15.518)
-Hexachlorobutadiene (18.727)
\\target_server\gg\chem\gcms-c.i\C011515.b\C1003A.D

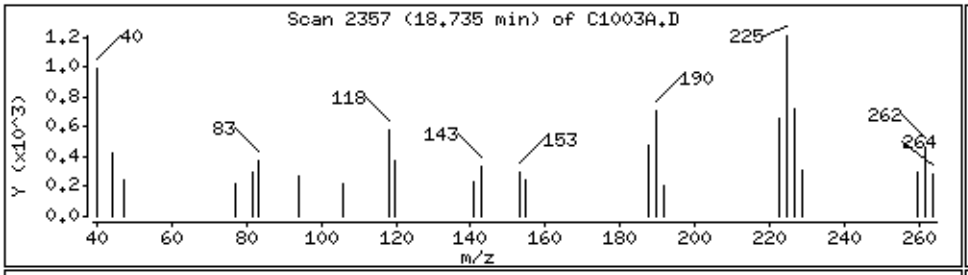
Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C1003A.D

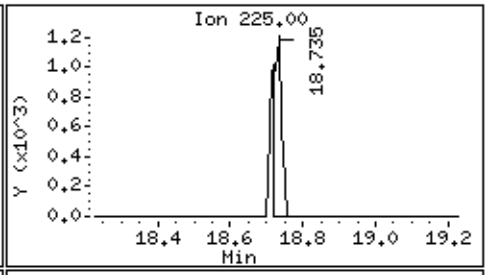
Date : 15-JAN-2015 14:30

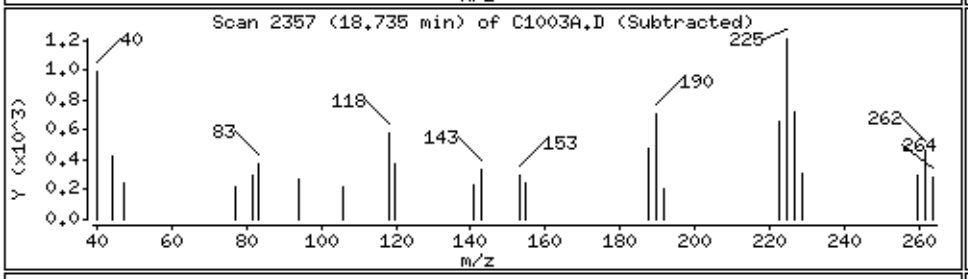
Client ID: WG157009-Blank Instrument: gcms-c.i

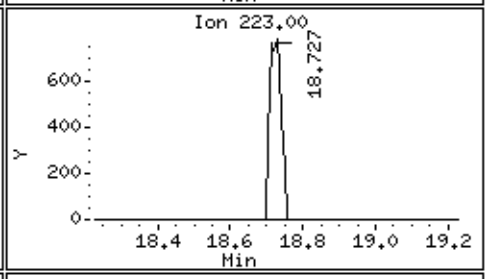
Sample Info: WG157009-2,SI0230

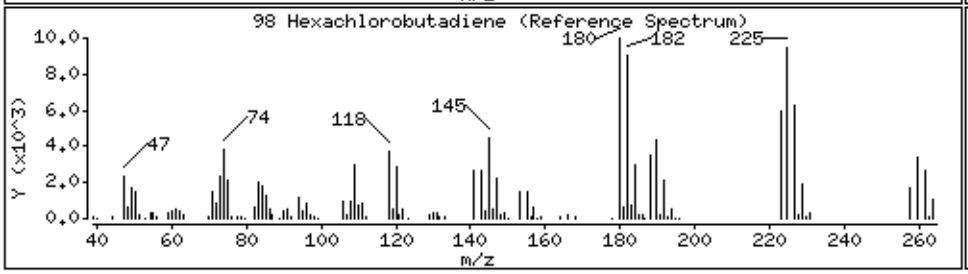
98 Hexachlorobutadiene Concentration: 0.53 ug/l

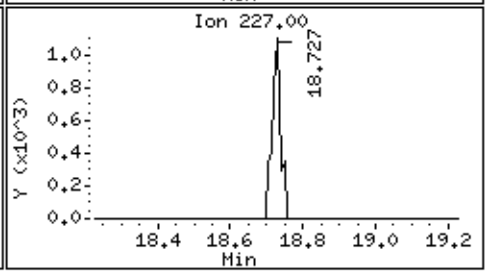












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG157065-2
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: C1020.D

Sample Date:
Received Date:
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157065

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	5	5.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	5	5.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	5	5.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	5	5.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	5	5.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	10	10.	1.1	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.25	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	5	5.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	5	5.0	0.22	0.50
Benzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	5	5.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	5	5.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	5	5.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.19	0.50
Toluene	U	0.50	ug/L	1	5	5.0	0.27	0.50
trans-1,3-Dichloropropene	U	0.50	ug/L	1	5	5.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	5	5.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	5	5.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	5	5.0	0.30	0.50
Chlorobenzene	U	0.50	ug/L	1	5	5.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Bromoform	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	5	5.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	5	5.0	0.15	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	5	5.0	0.21	0.50
Freon-113	U	0.50	ug/L	1	5	5.0	0.31	0.50
Acetone	U	2.5	ug/L	1	10	10.	2.2	2.5

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Report of Analytical Results

Client:
Lab ID: WG157065-2
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: C1020.D

Sample Date:
Received Date:
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157065

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Carbon Disulfide	U	0.50	ug/L	1	5	5.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	5	5.0	0.36	0.50
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	10	10.	0.21	1.0
2-Butanone	U	2.5	ug/L	1	10	10.	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	5	5.0	0.31	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
1,2-Dibromoethane	U	0.50	ug/L	1	5	5.0	0.22	0.50
Xylenes (Total)	U	1.5	ug/L	1	15	15.	0.25	1.5
M+P-Xylenes	U	1.0	ug/L	1	10	10.	0.59	1.0
o-Xylene	U	0.50	ug/L	1	5	5.0	0.25	0.50
Styrene	U	0.50	ug/L	1	5	5.0	0.23	0.50
1,2-Dibromo-3-Chloropropane	U	0.50	ug/L	1	5	5.0	0.50	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	5	5.0	0.37	0.50
Isopropylbenzene	U	0.50	ug/L	1	5	5.0	0.23	0.50
Methyl Acetate	U	0.75	ug/L	1	5	5.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	5	5.0	0.30	0.50
1,2-Dichloroethane-D4		128.	%					
Toluene-D8		101.	%					
P-Bromofluorobenzene		101.	%					
Dibromofluoromethane		108.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1020.D
Report Date: 21-Jan-2015 13:35

Katahdin Analytical Services

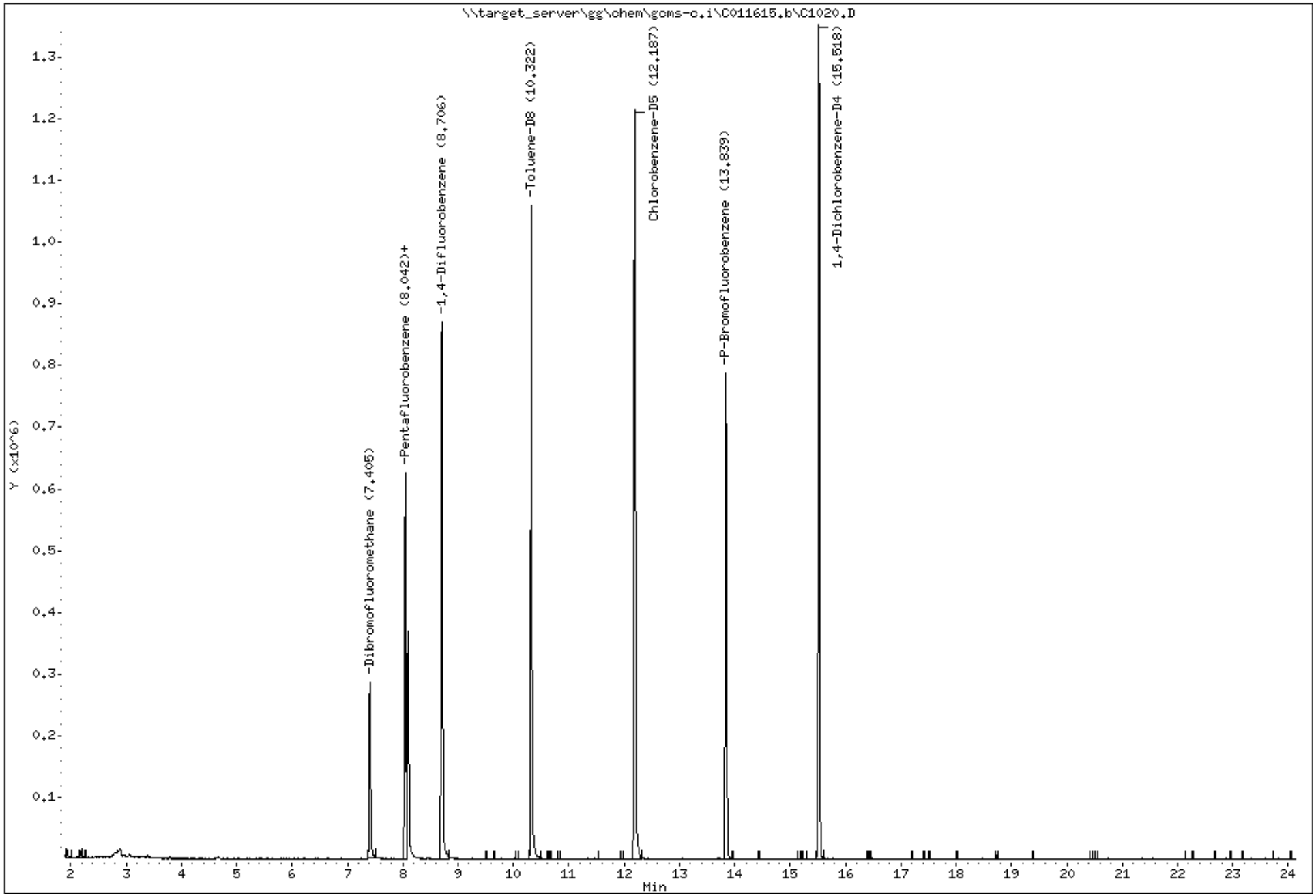
Data file : \\target_server\gg\chem\gcms-c.i\C011615.b\C1020.D
Lab Smp Id: WG157065-2 Client Smp ID: WG157065-Blank
Inj Date : 16-JAN-2015 12:57 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157065-2,SI0230
Misc Info : WG157065,WG157320-3,SI0230-4
Comment :
Method : \\target_server\gg\chem\gcms-c.i\C011615.b\C624a27.m
Meth Date : 21-Jan-2015 13:35 gcms-c.i Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.405	7.404	(0.921)	173736	53.7606	53.8	
* 42 Pentafluorobenzene	168	8.041	8.039	(1.000)	347102	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.091	8.090	(1.006)	262322	64.1194	64.1	
* 49 1,4-Difluorobenzene	114	8.706	8.705	(1.000)	607945	50.0000		
$ 55 Toluene-D8	98	10.321	10.320	(1.186)	593440	50.6978	50.7	
* 66 Chlorobenzene-D5	117	12.194	12.193	(1.000)	639998	50.0000		
$ 76 P-Bromofluorobenzene	95	13.838	13.837	(1.589)	265524	50.5212	50.5	
* 91 1,4-Dichlorobenzene-D4	152	15.518	15.517	(1.000)	343663	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1020.D
Date : 16-JAN-2015 12:57
Client ID: WG157065-Blank
Instrument: gcms-c.i
Sample Info: WG157065-2,SI0230



LCS Recovery Report

Client:
Lab ID: WG157009-1
Client ID: LCS
Project:
SDG: SI0230
LCS File ID: C0998.D

Sample Date:
Received Date:
Extract Date: 15-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157009

Analysis Date: 15-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	71.0	20.0	14.2	ug/L	29-164
Chloromethane	70.5	20.0	14.1	ug/L	0-273
Vinyl Chloride	82.5	20.0	16.5	ug/L	0-251
Bromomethane	50.0	20.0	10.0	ug/L	0-242
Chloroethane	90.0	20.0	18.0	ug/L	14-230
Trichlorofluoromethane	92.0	20.0	18.4	ug/L	17-181
1,1-Dichloroethene	76.0	20.0	15.2	ug/L	0-234
Methylene Chloride	80.5	20.0	16.1	ug/L	0-221
trans-1,2-Dichloroethene	79.5	20.0	15.9	ug/L	54-156
1,1-Dichloroethane	93.0	20.0	18.6	ug/L	59-155
Chloroform	91.5	20.0	18.3	ug/L	51-138
1,1,1-Trichloroethane	93.0	20.0	18.6	ug/L	52-162
Carbon Tetrachloride	90.5	20.0	18.1	ug/L	70-140
Benzene	87.0	20.0	17.4	ug/L	37-151
1,2-Dichloroethane	97.0	20.0	19.4	ug/L	49-155
Trichloroethene	87.0	20.0	17.4	ug/L	71-157
1,2-Dichloropropane	87.5	20.0	17.5	ug/L	0-210
Bromodichloromethane	94.5	20.0	18.9	ug/L	35-155
cis-1,3-Dichloropropene	85.5	20.0	17.1	ug/L	0-227
Toluene	90.5	20.0	18.1	ug/L	47-150
trans-1,3-Dichloropropene	94.5	20.0	18.9	ug/L	17-183
1,1,2-Trichloroethane	86.0	20.0	17.2	ug/L	52-150
Tetrachloroethene	78.5	20.0	15.7	ug/L	64-148
Dibromochloromethane	85.0	20.0	17.0	ug/L	53-149
Chlorobenzene	82.0	20.0	16.4	ug/L	37-160
Ethylbenzene	84.0	20.0	16.8	ug/L	37-162
Bromoform	84.5	20.0	16.9	ug/L	45-169
1,1,2,2-Tetrachloroethane	82.5	20.0	16.5	ug/L	46-157
1,3-Dichlorobenzene	81.5	20.0	16.3	ug/L	59-156
1,4-Dichlorobenzene	82.0	20.0	16.4	ug/L	18-190
1,2-Dichlorobenzene	83.5	20.0	16.7	ug/L	18-190
cis-1,2-Dichloroethene	* 85.0	20.0	17.0	ug/L	85-123
Freon-113	92.0	20.0	18.4	ug/L	73-126
Acetone	92.0	20.0	18.4	ug/L	62-172
Carbon Disulfide	94.0	20.0	18.8	ug/L	71-129

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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LCS Recovery Report

Client:
Lab ID: WG157009-1
Client ID: LCS
Project:
SDG: SI0230
LCS File ID: C0998.D

Sample Date:
Received Date:
Extract Date: 15-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157009

Analysis Date: 15-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Methyl tert-butyl Ether	101.	40.0	40.5	ug/L	81-125
1,2-Dichloroethylene (Total)	* 82.2	40.0	32.9	ug/L	84-121
2-Butanone	76.0	20.0	15.2	ug/L	71-132
Cyclohexane	91.0	20.0	18.2	ug/L	71-133
4-Methyl-2-Pentanone	86.0	20.0	17.2	ug/L	83-122
2-Hexanone	* 79.0	20.0	15.8	ug/L	80-124
1,2-Dibromoethane	85.5	20.0	17.1	ug/L	84-116
Xylenes (Total)	* 89.0	60.0	53.4	ug/L	89-116
M+P-Xylenes	90.0	40.0	36.0	ug/L	88-116
o-Xylene	* 87.0	20.0	17.4	ug/L	90-116
Styrene	95.0	20.0	19.0	ug/L	88-117
1,2-Dibromo-3-Chloropropane	74.5	20.0	14.9	ug/L	67-124
1,2,4-Trichlorobenzene	90.0	20.0	18.0	ug/L	76-126
Isopropylbenzene	* 89.0	20.0	17.8	ug/L	96-136
Methyl Acetate	92.0	20.0	18.4	ug/L	70-132
Methylcyclohexane	104.	20.0	20.9	ug/L	73-125
1,2-Dichloroethane-D4	106.				67-135
Toluene-D8	98.3				65-128
P-Bromofluorobenzene	101.				56-133
Dibromofluoromethane	101.				68-128

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Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0998.D
Report Date: 21-Jan-2015 13:56

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C011515.b\C0998.D
Lab Smp Id: WG157009-1
Inj Date : 15-JAN-2015 11:33 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157009-1,SI0230
Misc Info : WG157009,WG157320-3,SI0230-2
Comment :
Method : \\TARGET_SERVER\GG\chem\gcms-c.i\C011515.b\C624a27.m
Meth Date : 15-Jan-2015 11:58 rcrocker Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.987	1.993	(0.247)	90423	14.2319	14.2	
2	Chloromethane	50	2.230	2.229	(0.277)	123421	14.1451	14.1	
3	Vinyl chloride	62	2.330	2.329	(0.290)	102647	16.4993	16.5	
4	Bromomethane	94	2.730	2.729	(0.340)	30095	10.0291	10.0	
5	Chloroethane	64	2.880	2.879	(0.358)	47256	17.9626	18.0	
6	Trichlorofluoromethane	101	3.059	3.058	(0.380)	161815	18.3933	18.4	
7	Diethyl Ether	59	3.495	3.494	(0.435)	61525	17.2783	17.3	
8	Tertiary-butyl alcohol	59	5.354	5.353	(0.666)	36405	92.6610	92.7	
9	1,1-Dichloroethene	96	3.752	3.751	(0.467)	63539	15.2518	15.2	
10	Carbon Disulfide	76	3.788	3.787	(0.471)	234804	18.8113	18.8	
11	Freon-113	151	3.817	3.809	(0.475)	52204	18.4097	18.4	
12	Iodomethane	142	3.960	3.959	(0.492)	37279	13.3012	13.3	
13	Acrolein	56	4.267	4.266	(0.531)	62520	79.2269	79.2	
14	Methylene Chloride	84	4.653	4.652	(0.579)	89315	16.1484	16.1	
15	Acetone	43	4.760	4.752	(0.592)	37364	18.4163	18.4	
16	Isobutyl Alcohol	43	8.256	8.255	(1.027)	68951	363.922	364	
17	trans-1,2-Dichloroethene	96	4.918	4.917	(0.612)	72722	15.9339	15.9	
18	Allyl Chloride	41	4.474	4.473	(0.556)	143794	20.0161	20.0	
19	Methyl tert-butyl ether	73	5.132	5.131	(0.638)	429209	40.5091	40.5	
20	Acetonitrile	39	5.554	5.546	(0.691)	31325	151.480	151	
21	Di-isopropyl ether	45	5.790	5.789	(0.720)	274785	20.1133	20.1	
22	Chloroprene	53	5.911	5.910	(0.735)	141716	21.0906	21.1	
23	Propionitrile	54	7.963	7.969	(0.990)	151634	180.642	181	
24	Methacrylonitrile	41	7.991	7.990	(0.994)	658443	209.547	210	

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0998.D
Report Date: 21-Jan-2015 13:56

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.947	5.953	(0.740)	161347	18.5538	18.6	
	26	Acrylonitrile	52	6.047	6.046	(0.752)	165756	90.1198	90.1	
	27	Ethyl tertiary-butyl ether	59	6.354	6.353	(0.790)	228282	20.3843	20.4	
	28	Vinyl Acetate	43	6.376	6.375	(0.732)	206164	18.3513	18.4	
	29	cis-1,2-Dichloroethene	96	6.762	6.761	(0.841)	84524	16.9759	17.0	
M	30	1,2-Dichloroethylene (total)	96				157246	32.9098	32.9	
	31	Methyl Methacrylate	41	9.571	9.570	(1.099)	80940	19.6787	19.7	
	32	2,2-Dichloropropane	77	6.912	6.911	(0.860)	130023	19.4273	19.4	
	33	Bromochloromethane	128	7.041	7.040	(0.876)	39274	17.8645	17.9	
	34	Chloroform	83	7.155	7.154	(0.890)	162730	18.3071	18.3	
	35	Carbon Tetrachloride	117	7.319	7.318	(0.841)	114693	18.1447	18.1	
	36	Tetrahydrofuran	42	7.369	7.361	(0.916)	25144	15.4062	15.4	
$	37	Dibromofluoromethane	113	7.405	7.404	(0.921)	215439	50.3777	50.4	
	38	1,1,1-Trichloroethane	97	7.419	7.418	(0.923)	143236	18.5945	18.6	
	39	1,1-Dichloropropene	75	10.872	10.871	(1.249)	123523	18.9378	18.9	
	40	2-Butanone	43	7.591	7.583	(0.944)	39842	15.2596	15.2	
	41	Benzene	78	7.913	7.912	(0.909)	324367	17.3705	17.4	
*	42	Pentafluorobenzene	168	8.041	8.039	(1.000)	459323	50.0000		
	43	Cyclohexane	56	7.019	7.025	(0.873)	139154	18.2295	18.2	
	44	Ethyl Methacrylate	69	11.058	11.057	(1.270)	100814	18.7539	18.8	
$	45	1,2-Dichloroethane-D4	65	8.091	8.090	(1.006)	288402	53.2711	53.3	
	46	Tertiary-amyl methyl ether	73	8.084	8.083	(1.005)	188944	19.5456	19.5	
	47	1,2-Dichloroethane	62	8.177	8.176	(0.939)	134025	19.3891	19.4	
	48	Trichloroethene	95	8.649	8.654	(0.993)	85547	17.3787	17.4	
*	49	1,4-Difluorobenzene	114	8.706	8.705	(1.000)	780858	50.0000		
	50	Dibromomethane	93	9.164	9.162	(1.053)	53473	17.4190	17.4	
	51	1,2-Dichloropropane	63	9.285	9.284	(1.066)	82526	17.4977	17.5	
	52	Bromodichloromethane	83	9.371	9.370	(1.076)	123738	18.9397	18.9	
	53	cis-1,3-dichloropropene	75	10.107	10.113	(1.161)	131614	17.1425	17.1	
	54	1,4-Dioxane	88	9.614	9.613	(1.104)	34929	424.512	424	
$	55	Toluene-D8	98	10.322	10.320	(1.186)	739249	49.1694	49.2	
	56	2-Chloroethylvinylether	63	10.050	10.049	(1.154)	41877	23.6576	23.6	
	57	Toluene	92	10.379	10.378	(1.192)	211542	18.0899	18.1	
	58	4-methyl-2-pentanone	43	10.829	10.828	(1.244)	82329	17.1785	17.2(M)	M6
	59	Tetrachloroethene	164	10.822	10.821	(0.888)	66396	15.6683	15.7	
	60	trans-1,3-Dichloropropene	75	10.872	10.871	(1.249)	123523	18.9378	18.9	
	61	1,1,2-Trichloroethane	83	11.058	11.057	(1.270)	64837	17.2014	17.2	
	62	Dibromochloromethane	129	11.272	11.271	(0.925)	84270	17.0438	17.0	
	63	1,3-Dichloropropane	76	11.387	11.385	(0.934)	139877	17.9762	18.0	
	64	1,2-Dibromoethane	107	11.558	11.557	(1.328)	82245	17.0974	17.1	
	65	2-Hexanone	43	11.844	11.836	(0.972)	57862	15.7961	15.8	
*	66	Chlorobenzene-D5	117	12.187	12.193	(1.000)	810293	50.0000		
	67	Chlorobenzene	112	12.209	12.215	(1.002)	237627	16.4142	16.4	
	152	1-Chlorohexane	91	12.187	12.186	(1.516)	141437	18.5116	18.5	
	68	Ethylbenzene	106	12.244	12.250	(1.005)	125918	16.8436	16.8	
	69	1,1,1,2-Tetrachloroethane	131	12.294	12.293	(1.009)	86146	18.2464	18.2	
M	70	Xylenes (total)	106				485222	53.4051	53.4	
	71	m+p-Xylenes	106	12.437	12.436	(1.021)	328227	35.9839	36.0	
	72	o-Xylene	106	13.009	13.008	(1.067)	156995	17.4211	17.4	
	73	Styrene	104	13.081	13.080	(1.073)	262018	18.9844	19.0	
	74	Bromoform	173	13.116	13.115	(1.076)	54015	16.8848	16.9	
	75	Isopropylbenzene	105	13.438	13.437	(0.866)	432475	17.8070	17.8	
$	76	P-Bromofluorobenzene	95	13.838	13.837	(1.589)	342468	50.7321	50.7	
	77	cis-1,4-Dichloro-2-Butene	53	13.938	13.937	(0.898)	44581	18.0106	18.0	

WAS

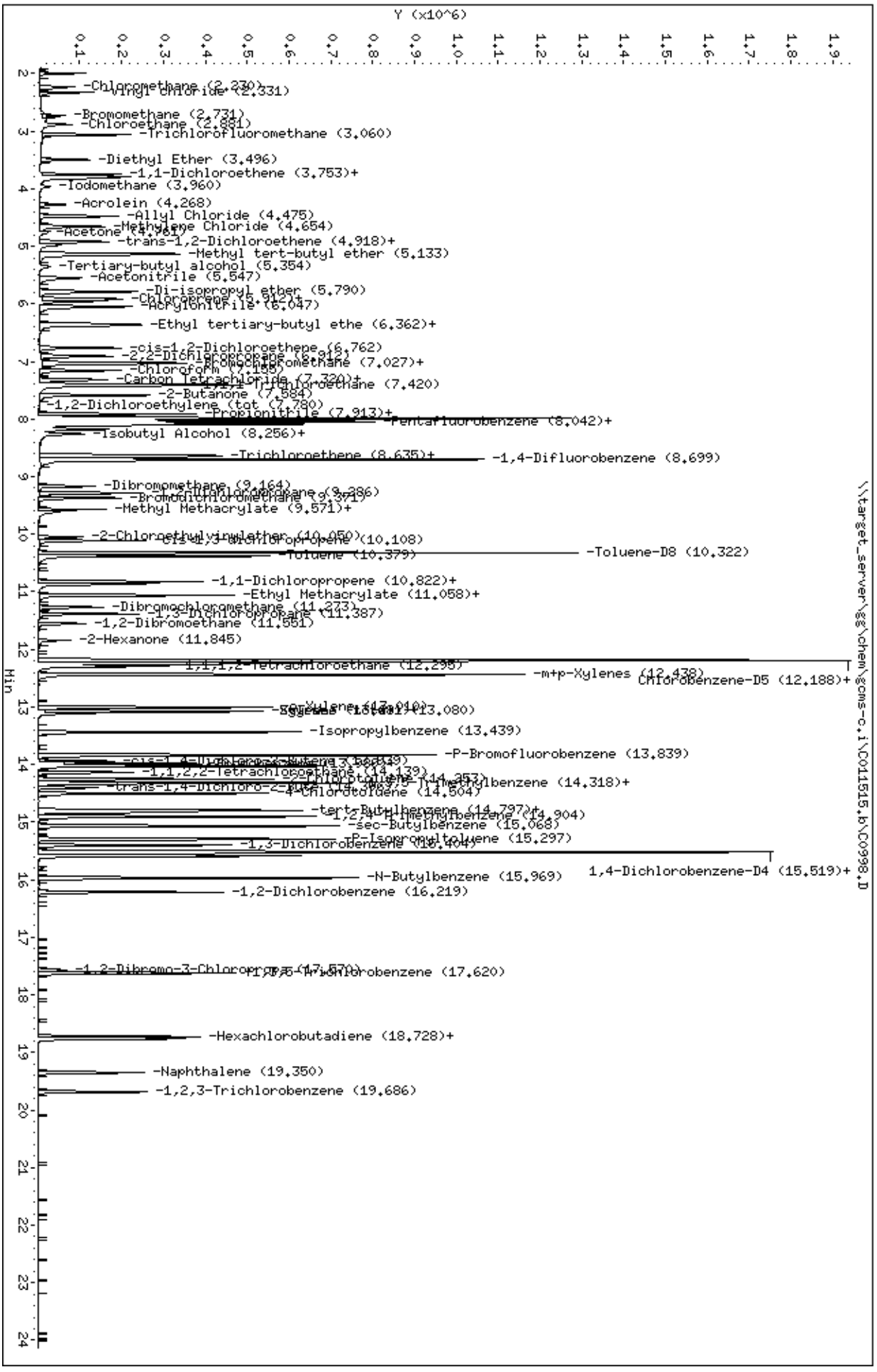
2:00 pm, Jan 21, 2015

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0998.D
Report Date: 21-Jan-2015 13:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.403	14.402	(0.928)	35033	18.0717	18.1	
	79 Bromobenzene	156	13.988	13.987	(0.901)	103000	16.4473	16.4	
	80 N-Propylbenzene	91	14.024	14.030	(0.904)	568461	18.9149	18.9	
	81 1,1,2,2-Tetrachloroethane	83	14.139	14.137	(0.911)	123214	16.4840	16.5	
	82 1,3,5-Trimethylbenzene	105	14.317	14.316	(0.923)	381173	18.6382	18.6	
	83 2-Chlorotoluene	91	14.253	14.252	(0.918)	330428	17.5862	17.6	
	84 1,2,3-Trichloropropane	75	14.332	14.330	(0.924)	104613	17.0720	17.1	
	85 4-Chlorotoluene	91	14.503	14.502	(0.935)	346443	18.1678	18.2	
	86 tert-Butylbenzene	119	14.796	14.795	(0.953)	385957	17.7059	17.7	
	87 Pentachloroethane	117	14.825	14.824	(0.955)	80485	17.5581	17.6	
	88 1,2,4-Trimethylbenzene	105	14.903	14.902	(0.960)	389767	19.2556	19.2	
	89 P-Isopropyltoluene	119	15.297	15.295	(0.986)	445568	19.8434	19.8	
	90 1,3-Dichlorobenzene	146	15.404	15.403	(0.993)	206175	16.2893	16.3	
*	91 1,4-Dichlorobenzene-D4	152	15.518	15.517	(1.000)	462944	50.0000		
	92 1,4-Dichlorobenzene	146	15.540	15.546	(1.001)	208317	16.4196	16.4	
	93 N-Butylbenzene	91	15.968	15.967	(1.029)	461188	21.1299	21.1	
	94 sec-Butylbenzene	105	15.068	15.067	(0.971)	543920	19.3601	19.4	
	95 1,2-Dichlorobenzene	146	16.219	16.218	(1.045)	188556	16.6650	16.7	
	96 1,2-Dibromo-3-Chloropropane	75	17.562	17.569	(1.132)	19751	14.9473	14.9	
	97 1,3,5-Trichlorobenzene	180	17.620	17.626	(1.135)	160444	18.5870	18.6	
	98 Hexachlorobutadiene	225	18.728	18.726	(1.207)	80931	19.9169	19.9	
	99 1,2,4-Trichlorobenzene	180	18.763	18.762	(1.209)	112971	18.0300	18.0	
	100 1,2,3-Trimethylbenzene	105	15.582	15.589	(1.004)	394887	19.3171	19.3	
	101 Naphthalene	128	19.349	19.348	(1.247)	214580	16.3097	16.3	
	102 1,2,3-Trichlorobenzene	180	19.685	19.684	(1.269)	85097	17.2021	17.2	
	103 Methyl Acetate	43	4.975	4.974	(0.619)	81858	18.4395	18.4	
	104 Methylcyclohexane	83	8.627	8.625	(1.073)	150611	20.8718	20.9	
M	153 Total Alkylbenzenes	100				3608509	152.655	153	

QC Flag Legend

M - Compound response manually integrated.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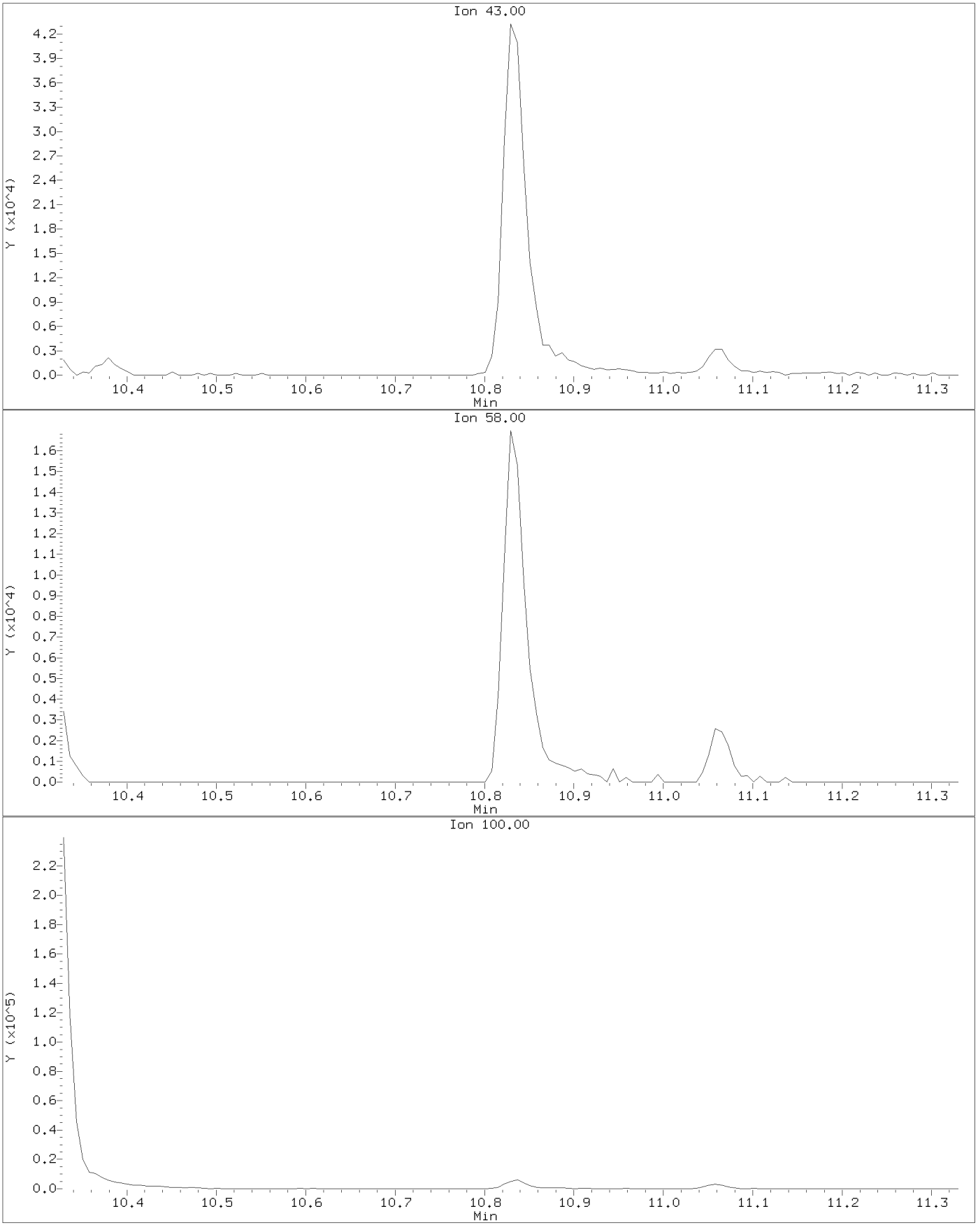
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9
Min
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
-Chloromethane (2.230)
-Vinyl chloride (2.331)
-Bromomethane (2.731)
-Chloroethane (2.881)
-Trichlorofluoromethane (3.060)
-Diethyl Ether (3.496)
-1,1-Dichloroethene (3.753)+
-Iodomethane (3.960)
-Acrolein (4.268)
-Allyl Chloride (4.475)
-Methylene Chloride (4.654)
-Acetone (4.761)
-trans-1,2-Dichloroethene (4.918)+
-Methyl tert-butyl ether (5.133)
-Tertiary-butyl alcohol (5.354)
-Acetonitrile (5.547)
-Di-isopropyl ether (5.790)
-Chloroprene (5.912)+
-Acrylonitrile (6.047)
-Ethyl tertiary-butyl ethe (6.362)+
-cis-1,2-Dichloroethene (6.762)
-2,2-Dichloropropane (6.912)
-Bromochloromethane (7.027)+
-Chloroform (7.188)
-Carbon tetrachloride (7.320)+
-1,1,1-Trichloroethane (7.420)
-2-Butanone (7.584)
-1,2-Dichloroethylene (tot (7.780)
-Propionitrile (7.913)+
-Pentafluorobenzene (8.042)+
-Isobutyl Alcohol (8.256)+
-Trichloroethene (8.635)+
-1,4-Difluorobenzene (8.699)
-Dibromomethane (9.164)
-Bromodichloromethane (9.371)
-Methyl Methacrylate (9.571)+
-2-Chloroethylvinylether (10.050)
-cis-1,3-Dichloropropene (10.108)
-Toluene (10.379)
-Toluene-D8 (10.322)
-1,1-Dichloropropene (10.822)+
-Ethyl Methacrylate (11.058)+
-Dibromochloromethane (11.273)
-1,3-Dichloropropane (11.387)
-1,2-Dibromoethane (11.551)
-2-Hexanone (11.845)
-1,1,1,2-Tetrachloroethane (12.298)
-m+p-Xylenes (12.438)
Chlorobenzene-D5 (12.188)+
-Isopropylbenzene (13.439)
-P-Bromofluorobenzene (13.839)
-1,1,2,2-Tetrachloroethane (14.139)
-Bromobenzene (14.257)
-1,2,4-Trimethylbenzene (14.318)+
-4-Chlorotoluene (14.504)
-tert-Butylbenzene (14.797)+
-1,2,4,5-Tetramethylbenzene (14.904)
-sec-Butylbenzene (15.068)
-P-Isopropyltoluene (15.297)
-1,3-Dichlorobenzene (15.404)
1,4-Dichlorobenzene-D4 (15.519)+
-N-Butylbenzene (15.969)
-1,2-Dichlorobenzene (16.219)
-1,2,4-Trichlorobenzene (17.620)
-Hexachlorobutadiene (18.728)+
-Naphthalene (19.350)
-1,2,3-Trichlorobenzene (19.686)
Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0998.D
Date : 15-JAN-2015 11:33
Client ID:
Sample Info: WG157009-1,SI0230
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C011515.b\C0998.D

Data File: \\target_server\gg\chem\gcms-c.i\C011515.b\C0998.D
Injection Date: 15-JAN-2015 11:33
Instrument: gcms-c.i
Client Sample ID:

Compound: 4-methyl-2-pentanone
CAS Number: 108-10-1

BEFORE MANUAL INTEGRATION



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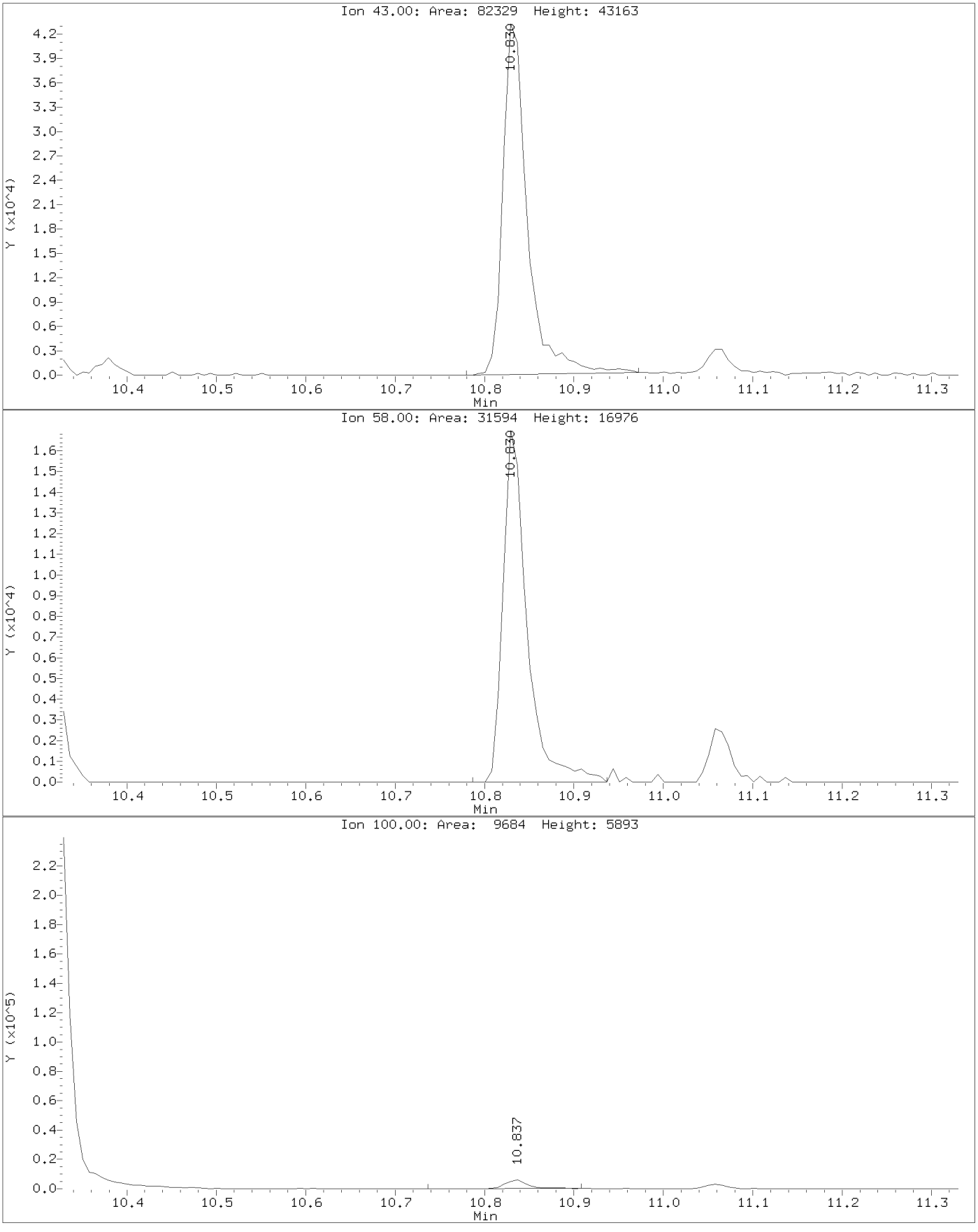
Injection Date: 15-JAN-2015 11:33
Instrument: gcms-c.i
Client Sample ID:

Compound: 4-methyl-2-pentanone
CAS Number: 108-10-1

AFTER MANUAL INTEGRATION



LCS Recovery Report

Client:
Lab ID: WG157065-1
Client ID: LCS
Project:
SDG: SI0230
LCS File ID: C1017.D

Sample Date:
Received Date:
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157065

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	68.5	20.0	13.7	ug/L	29-164
Chloromethane	67.5	20.0	13.5	ug/L	0-273
Vinyl Chloride	77.0	20.0	15.4	ug/L	0-251
Bromomethane	59.5	20.0	11.9	ug/L	0-242
Chloroethane	95.5	20.0	19.1	ug/L	14-230
Trichlorofluoromethane	93.5	20.0	18.7	ug/L	17-181
1,1-Dichloroethene	73.0	20.0	14.6	ug/L	0-234
Methylene Chloride	79.0	20.0	15.8	ug/L	0-221
trans-1,2-Dichloroethene	77.0	20.0	15.4	ug/L	54-156
1,1-Dichloroethane	91.5	20.0	18.3	ug/L	59-155
Chloroform	90.5	20.0	18.1	ug/L	51-138
1,1,1-Trichloroethane	95.5	20.0	19.1	ug/L	52-162
Carbon Tetrachloride	90.0	20.0	18.0	ug/L	70-140
Benzene	84.5	20.0	16.9	ug/L	37-151
1,2-Dichloroethane	92.5	20.0	18.5	ug/L	49-155
Trichloroethene	86.0	20.0	17.2	ug/L	71-157
1,2-Dichloropropane	87.0	20.0	17.4	ug/L	0-210
Bromodichloromethane	91.0	20.0	18.2	ug/L	35-155
cis-1,3-Dichloropropene	83.0	20.0	16.6	ug/L	0-227
Toluene	84.5	20.0	16.9	ug/L	47-150
trans-1,3-Dichloropropene	93.0	20.0	18.6	ug/L	17-183
1,1,2-Trichloroethane	79.5	20.0	15.9	ug/L	52-150
Tetrachloroethene	78.0	20.0	15.6	ug/L	64-148
Dibromochloromethane	83.5	20.0	16.7	ug/L	53-149
Chlorobenzene	80.0	20.0	16.0	ug/L	37-160
Ethylbenzene	83.5	20.0	16.7	ug/L	37-162
Bromoform	81.0	20.0	16.2	ug/L	45-169
1,1,2,2-Tetrachloroethane	81.0	20.0	16.2	ug/L	46-157
1,3-Dichlorobenzene	79.5	20.0	15.9	ug/L	59-156
1,4-Dichlorobenzene	80.0	20.0	16.0	ug/L	18-190
1,2-Dichlorobenzene	83.0	20.0	16.6	ug/L	18-190
cis-1,2-Dichloroethene	* 82.0	20.0	16.4	ug/L	85-123
Freon-113	90.5	20.0	18.1	ug/L	73-126
Acetone	81.0	20.0	16.2	ug/L	62-172
Carbon Disulfide	88.0	20.0	17.6	ug/L	71-129

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

LCS Recovery Report

Client:
Lab ID: WG157065-1
Client ID: LCS
Project:
SDG: SI0230
LCS File ID: C1017.D

Sample Date:
Received Date:
Extract Date: 16-JAN-15
Extracted By: REC
Extraction Method: EPA 624
Lab Prep Batch: WG157065

Analysis Date: 16-JAN-15
Analyst: REC
Analysis Method: EPA 624
Matrix: AQ
% Solids: NA
Report Date: 21-JAN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Methyl tert-butyl Ether	95.8	40.0	38.3	ug/L	81-125
1,2-Dichloroethylene (Total)	* 79.8	40.0	31.9	ug/L	84-121
2-Butanone	79.5	20.0	15.9	ug/L	71-132
Cyclohexane	87.5	20.0	17.5	ug/L	71-133
4-Methyl-2-Pentanone	88.0	20.0	17.6	ug/L	83-122
2-Hexanone	* 74.0	20.0	14.8	ug/L	80-124
1,2-Dibromoethane	* 75.0	20.0	15.0	ug/L	84-116
Xylenes (Total)	* 84.5	60.0	50.7	ug/L	89-116
M+P-Xylenes	* 86.0	40.0	34.4	ug/L	88-116
o-Xylene	* 82.0	20.0	16.4	ug/L	90-116
Styrene	90.5	20.0	18.1	ug/L	88-117
1,2-Dibromo-3-Chloropropane	81.5	20.0	16.3	ug/L	67-124
1,2,4-Trichlorobenzene	82.5	20.0	16.5	ug/L	76-126
Isopropylbenzene	* 88.0	20.0	17.6	ug/L	96-136
Methyl Acetate	91.5	20.0	18.3	ug/L	70-132
Methylcyclohexane	94.0	20.0	18.8	ug/L	73-125
1,2-Dichloroethane-D4	112.				67-135
Toluene-D8	96.7				65-128
P-Bromofluorobenzene	98.7				56-133
Dibromofluoromethane	102.				68-128

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1017.D
Report Date: 21-Jan-2015 13:57

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C011615.b\C1017.D
Lab Smp Id: WG157065-1
Inj Date : 16-JAN-2015 11:08 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG157065-1,SI0230
Misc Info : WG157065,WG157320-3,SI0230-4
Comment :
Method : \\TARGET_SERVER\GG\chem\gcms-c.i\C011615.b\C624a27.m
Meth Date : 21-Jan-2015 13:35 gcms-c.i Quant Type: ISTD
Cal Date : 29-DEC-2014 15:30 Cal File: C0792A.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.992	1.993	(0.248)	76871	13.6689	13.7	
2	Chloromethane	50	2.228	2.229	(0.277)	104390	13.5166	13.5	
3	Vinyl chloride	62	2.328	2.329	(0.290)	84943	15.4254	15.4	
4	Bromomethane	94	2.729	2.729	(0.339)	31699	11.9345	11.9	
5	Chloroethane	64	2.886	2.879	(0.359)	44447	19.0873	19.1	
6	Trichlorofluoromethane	101	3.057	3.058	(0.380)	145974	18.7459	18.7	
7	Diethyl Ether	59	3.493	3.494	(0.435)	55056	17.4680	17.5	
8	Tertiary-butyl alcohol	59	5.352	5.353	(0.666)	28272	81.2983	81.3	
9	1,1-Dichloroethene	96	3.751	3.751	(0.467)	53864	14.6072	14.6	
10	Carbon Disulfide	76	3.786	3.787	(0.471)	195084	17.6573	17.6	
11	Freon-113	151	3.815	3.809	(0.475)	45478	18.1190	18.1	
12	Iodomethane	142	3.958	3.959	(0.492)	34185	13.7801	13.8	
13	Acrolein	56	4.273	4.266	(0.531)	54088	77.4362	77.4	
14	Methylene Chloride	84	4.651	4.652	(0.579)	77197	15.7687	15.8	
15	Acetone	43	4.759	4.752	(0.592)	29022	16.1609	16.2	
16	Isobutyl Alcohol	43	8.254	8.255	(1.027)	49076	292.635	293	
17	trans-1,2-Dichloroethene	96	4.923	4.917	(0.612)	62414	15.4500	15.4	
18	Allyl Chloride	41	4.480	4.473	(0.557)	119985	18.8693	18.9	
19	Methyl tert-butyl ether	73	5.130	5.131	(0.638)	359093	38.2895	38.3	
20	Acetonitrile	39	5.545	5.546	(0.690)	30277	165.411	165	
21	Di-isopropyl ether	45	5.788	5.789	(0.720)	234457	19.3884	19.4	
22	Chloroprene	53	5.917	5.910	(0.736)	122815	20.6495	20.6	
23	Propionitrile	54	7.968	7.969	(0.991)	131746	177.316	177	
24	Methacrylonitrile	41	7.990	7.990	(0.994)	580494	208.713	209	

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1017.D
Report Date: 21-Jan-2015 13:57

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.952	5.953	(0.740)	140745	18.2850	18.3	
	26	Acrylonitrile	52	6.045	6.046	(0.752)	144422	88.7102	88.7	
	27	Ethyl tertiary-butyl ether	59	6.353	6.353	(0.790)	193441	19.5147	19.5	
	28	Vinyl Acetate	43	6.374	6.375	(0.732)	173602	17.3610	17.4	
	29	cis-1,2-Dichloroethene	96	6.760	6.761	(0.841)	72480	16.4460	16.4	
M	30	1,2-Dichloroethylene (total)	96				134894	31.8960	31.9	
	31	Methyl Methacrylate	41	9.569	9.570	(1.099)	66946	18.2862	18.3	
	32	2,2-Dichloropropane	77	6.910	6.911	(0.860)	108789	18.3640	18.4	
	33	Bromochloromethane	128	7.039	7.040	(0.876)	32762	16.8363	16.8	
	34	Chloroform	83	7.160	7.154	(0.891)	142305	18.0868	18.1	
	35	Carbon Tetrachloride	117	7.318	7.318	(0.841)	101572	18.0530	18.0	
	36	Tetrahydrofuran	42	7.375	7.361	(0.917)	19846	13.7380	13.7	
$	37	Dibromofluoromethane	113	7.403	7.404	(0.921)	192958	50.9760	51.0	
	38	1,1,1-Trichloroethane	97	7.418	7.418	(0.923)	130441	19.1309	19.1	
	39	1,1-Dichloropropene	75	10.870	10.871	(1.249)	108265	18.6481	18.6	
	40	2-Butanone	43	7.596	7.583	(0.945)	36708	15.8837	15.9	
	41	Benzene	78	7.911	7.912	(0.909)	280515	16.8770	16.9	
*	42	Pentafluorobenzene	168	8.040	8.039	(1.000)	406564	50.0000		
	43	Cyclohexane	56	7.025	7.025	(0.874)	118307	17.5097	17.5	
	44	Ethyl Methacrylate	69	11.063	11.057	(1.271)	85413	17.8509	17.8	
$	45	1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	268925	56.1195	56.1	
	46	Tertiary-amyl methyl ether	73	8.082	8.083	(1.005)	153378	17.9254	17.9	
	47	1,2-Dichloroethane	62	8.175	8.176	(0.939)	113913	18.5145	18.5	
	48	Trichloroethene	95	8.654	8.654	(0.994)	75247	17.1738	17.2	
*	49	1,4-Difluorobenzene	114	8.704	8.705	(1.000)	695036	50.0000		
	50	Dibromomethane	93	9.169	9.162	(1.053)	44275	16.2037	16.2	
	51	1,2-Dichloropropane	63	9.283	9.284	(1.067)	72891	17.3631	17.4	
	52	Bromodichloromethane	83	9.369	9.370	(1.076)	105576	18.1551	18.2	
	53	cis-1,3-dichloropropene	75	10.112	10.113	(1.162)	113512	16.6103	16.6	
	54	1,4-Dioxane	88	9.612	9.613	(1.104)	16029	218.864	219(R)	
$	55	Toluene-D8	98	10.320	10.320	(1.186)	646799	48.3324	48.3	
	56	2-Chloroethylvinylether	63	10.048	10.049	(1.154)	14724	9.34512	9.3	
	57	Toluene	92	10.384	10.378	(1.193)	175978	16.9068	16.9	
	58	4-methyl-2-pentanone	43	10.834	10.828	(1.245)	75172	17.6220	17.6(M)	M6
	59	Tetrachloroethene	164	10.820	10.821	(0.887)	57583	15.5565	15.6	
	60	trans-1,3-Dichloropropene	75	10.870	10.871	(1.249)	108265	18.6481	18.6	
	61	1,1,2-Trichloroethane	83	11.056	11.057	(1.270)	53346	15.9004	15.9	
	62	Dibromochloromethane	129	11.270	11.271	(0.924)	72233	16.7249	16.7	
	63	1,3-Dichloropropane	76	11.385	11.385	(0.934)	117196	17.2425	17.2	
	64	1,2-Dibromoethane	107	11.556	11.557	(1.328)	64082	14.9665	15.0	
	65	2-Hexanone	43	11.842	11.836	(0.971)	47520	14.8514	14.8	
*	66	Chlorobenzene-D5	117	12.193	12.193	(1.000)	707793	50.0000		
	67	Chlorobenzene	112	12.214	12.215	(1.002)	203070	16.0585	16.0	
	152	1-Chlorohexane	91	12.185	12.186	(1.516)	114694	16.9594	17.0	
	68	Ethylbenzene	106	12.250	12.250	(1.005)	109318	16.7408	16.7	
	69	1,1,1,2-Tetrachloroethane	131	12.300	12.293	(1.009)	74383	18.0365	18.0	
M	70	Xylenes (total)	106				402771	50.7480	50.7	
	71	m+p-Xylenes	106	12.436	12.436	(1.020)	273780	34.3615	34.4	
	72	o-Xylene	106	13.007	13.008	(1.067)	128991	16.3865	16.4	
	73	Styrene	104	13.079	13.080	(1.073)	217997	18.0822	18.1	
	74	Bromoform	173	13.115	13.115	(1.076)	45288	16.2069	16.2	
	75	Isopropylbenzene	105	13.436	13.437	(0.866)	370247	17.5514	17.6	
$	76	P-Bromofluorobenzene	95	13.837	13.837	(1.590)	296673	49.3748	49.4	
	77	cis-1,4-Dichloro-2-Butene	53	13.937	13.937	(0.898)	37190	17.2980	17.3	

WAS

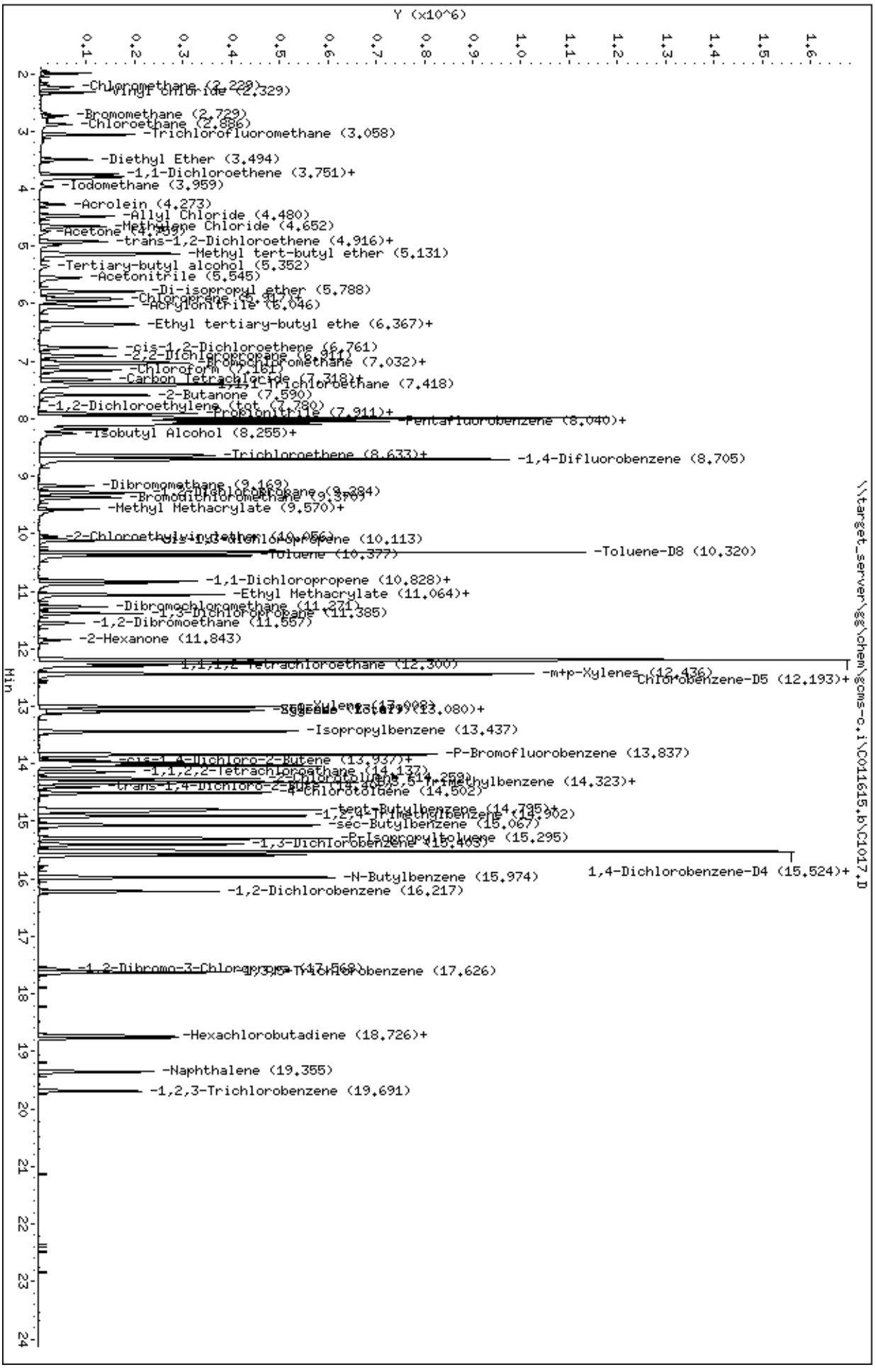
2:01 pm, Jan 21, 2015

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1017.D
Report Date: 21-Jan-2015 13:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.401	14.402	(0.928)	31367	18.6289	18.6	
	79 Bromobenzene	156	13.987	13.987	(0.901)	85636	15.7437	15.7	
	80 N-Propylbenzene	91	14.030	14.030	(0.904)	483161	18.5091	18.5	
	81 1,1,2,2-Tetrachloroethane	83	14.137	14.137	(0.911)	105123	16.1916	16.2	
	82 1,3,5-Trimethylbenzene	105	14.323	14.316	(0.923)	327853	18.4566	18.4	
	83 2-Chlorotoluene	91	14.258	14.252	(0.919)	284284	17.4196	17.4	
	84 1,2,3-Trichloropropane	75	14.337	14.330	(0.924)	90435	16.9913	17.0	
	85 4-Chlorotoluene	91	14.501	14.502	(0.934)	303813	18.3429	18.3	
	86 tert-Butylbenzene	119	14.794	14.795	(0.953)	326933	17.2675	17.3	
	87 Pentachloroethane	117	14.823	14.824	(0.955)	69152	17.3684	17.4	
	88 1,2,4-Trimethylbenzene	105	14.909	14.902	(0.960)	333882	18.9905	19.0	
	89 P-Isopropyltoluene	119	15.295	15.295	(0.985)	370599	19.0020	19.0	
	90 1,3-Dichlorobenzene	146	15.402	15.403	(0.992)	174521	15.8747	15.9	
*	91 1,4-Dichlorobenzene-D4	152	15.524	15.517	(1.000)	402103	50.0000		
	92 1,4-Dichlorobenzene	146	15.545	15.546	(1.001)	176079	15.9785	16.0	
	93 N-Butylbenzene	91	15.974	15.967	(1.029)	380226	20.0563	20.0	
	94 sec-Butylbenzene	105	15.066	15.067	(0.971)	443750	18.1845	18.2	
	95 1,2-Dichlorobenzene	146	16.217	16.218	(1.045)	162793	16.5650	16.6	
	96 1,2-Dibromo-3-Chloropropane	75	17.575	17.569	(1.132)	18736	16.3245	16.3	
	97 1,3,5-Trichlorobenzene	180	17.625	17.626	(1.135)	122902	16.3922	16.4	
	98 Hexachlorobutadiene	225	18.726	18.726	(1.206)	57566	16.3104	16.3	
	99 1,2,4-Trichlorobenzene	180	18.762	18.762	(1.209)	89658	16.4744	16.5	
	100 1,2,3-Trimethylbenzene	105	15.588	15.589	(1.004)	330653	18.6223	18.6	
	101 Naphthalene	128	19.355	19.348	(1.247)	195193	17.0810	17.1	
	102 1,2,3-Trichlorobenzene	180	19.691	19.684	(1.268)	69360	16.1423	16.1	
	103 Methyl Acetate	43	4.980	4.974	(0.619)	72103	18.3497	18.3	
	104 Methylcyclohexane	83	8.633	8.625	(1.074)	120237	18.8248	18.8	
M	153 Total Alkylbenzenes	100				3036651	148.018	148	

QC Flag Legend

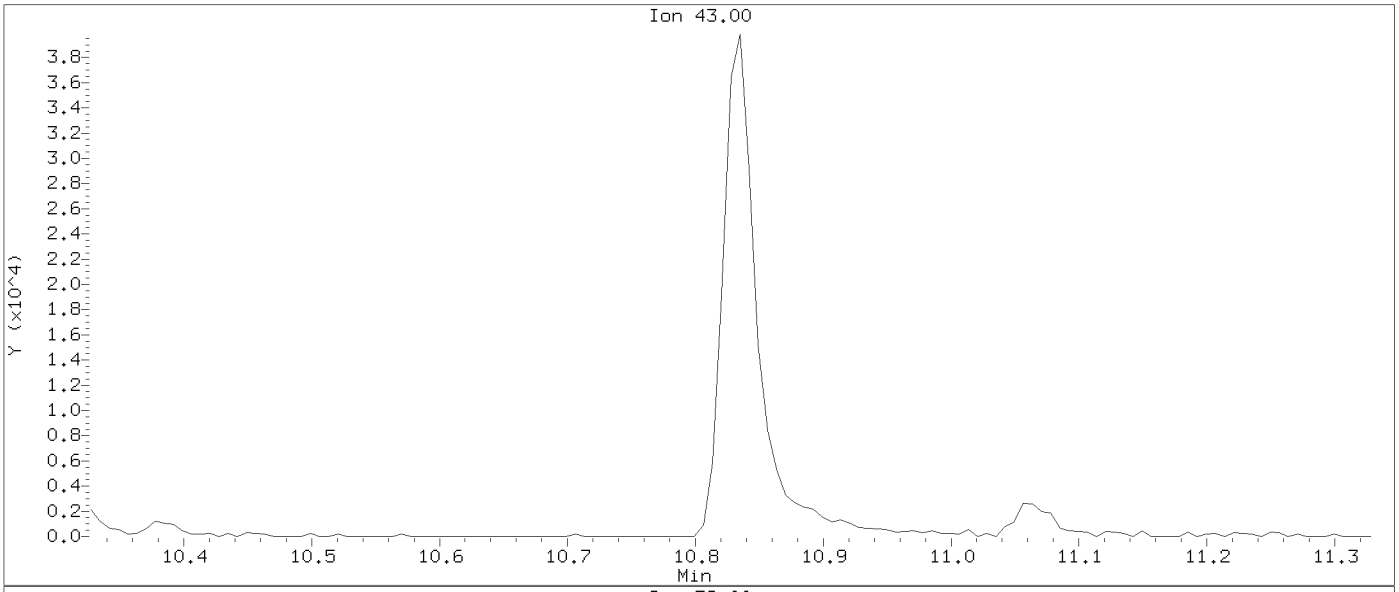
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

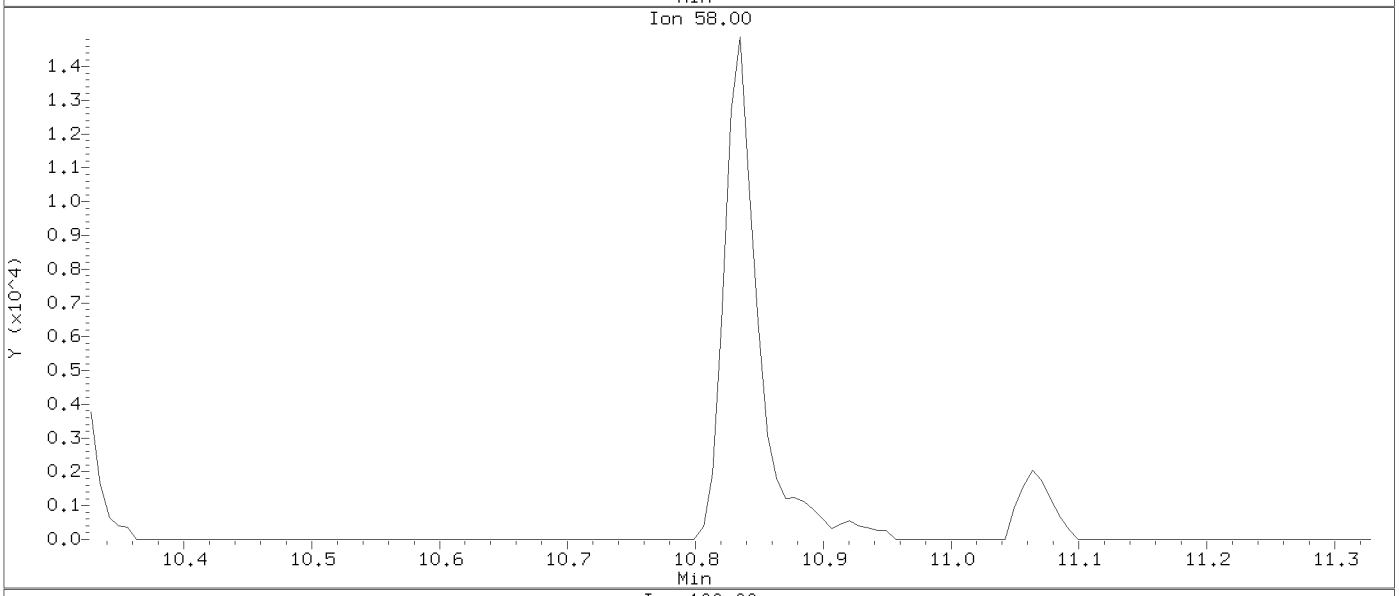

Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1017.D
Date : 16-JAN-2015 11:08
Client ID:
Sample Info: WG157065-1,SI0230
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C011615.b\C1017.D
Y (x10^6)
Min
-Chloromethane (2.229)
-Vinyl Chloride (2.329)
-Bromomethane (2.729)
-Chloroethane (2.896)
-Trichlorofluoromethane (3.058)
-Diethyl Ether (3.494)
-1,1-Dichloroethene (3.751)+
-Iodomethane (3.959)
-Acrolein (4.273)
-Allyl Chloride (4.480)
-Methylene Chloride (4.652)
-Acetone (4.859)
-trans-1,2-Dichloroethene (4.916)+
-Methyl tert-butyl ether (5.131)
-Tertiary-butyl alcohol (5.352)
-Acetonitrile (5.545)
-Di-isopropyl ether (5.788)
-Chloroprene (6.017)+
-Acrylonitrile (6.046)
-Ethyl tertiary-butyl ethe (6.367)+
-cis-1,2-Dichloroethene (6.761)
-2,2-Dichloropropane (6.911)
-Bromochloromethane (7.032)+
-Chloroform (7.161)
-Carbon Tetrachloride (7.318)+
1,1,1-Trichloroethane (7.418)
-2-Butanone (7.590)
-1,2-Dichloroethylene (tot (7.780)
-Propionitrile (7.911)+
-Pentafluorobenzene (8.040)+
-Isobutyl Alcohol (8.255)+
-Trichloroethene (8.633)+
-1,4-Difluorobenzene (8.705)
-Dibromomethane (9.169)
-1,1,1-Trichloropropane (9.284)
-Bromodichloromethane (9.379)
-Methyl Methacrylate (9.570)+
-2-Chloroethylvinylether (10.056)
cis-1,3-Dichloropropene (10.113)
-Toluene (10.377)
-Toluene-D8 (10.320)
-1,1-Dichloropropene (10.828)+
-Ethyl Methacrylate (11.064)+
-Dibromochloromethane (11.271)
-1,3-Dichloropropane (11.385)
-1,2-Dibromoethane (11.557)
-2-Hexanone (11.843)
1,1,1,2-Tetrachloroethane (12.300)
-m+p-Xylenes (12.436)
Chlorobenzene-D5 (12.193)+
-o-Xylene (13.080)+
-Isopropylbenzene (13.437)
-P-Bromofluorobenzene (13.837)
-cis-1,4-Dichloro-2-Butene (13.937)+
-1,1,2,2-Tetrachloroethane (14.137)
-2-Chlorotoluene (14.259)
-trans-1,4-Dichloro-2-Bute
1,3,5-Trimethylbenzene (14.323)+
-4-Chlorotoluene (14.502)
-tert-Butylbenzene (14.735)+
-1,2,4-Trimethylbenzene (14.902)
-sec-Butylbenzene (15.067)
-p-Isopropyltoluene (15.295)
-1,3-Dichlorobenzene (15.403)
1,4-Dichlorobenzene-D4 (15.524)+
-N-Butylbenzene (15.974)
-1,2-Dichlorobenzene (16.217)
-1,2-Dibromo-3-Chloropropa
1,2,4-Trichlorobenzene (17.626)
-Hexachlorobutadiene (18.726)+
-Naphthalene (19.355)
-1,2,3-Trichlorobenzene (19.691)

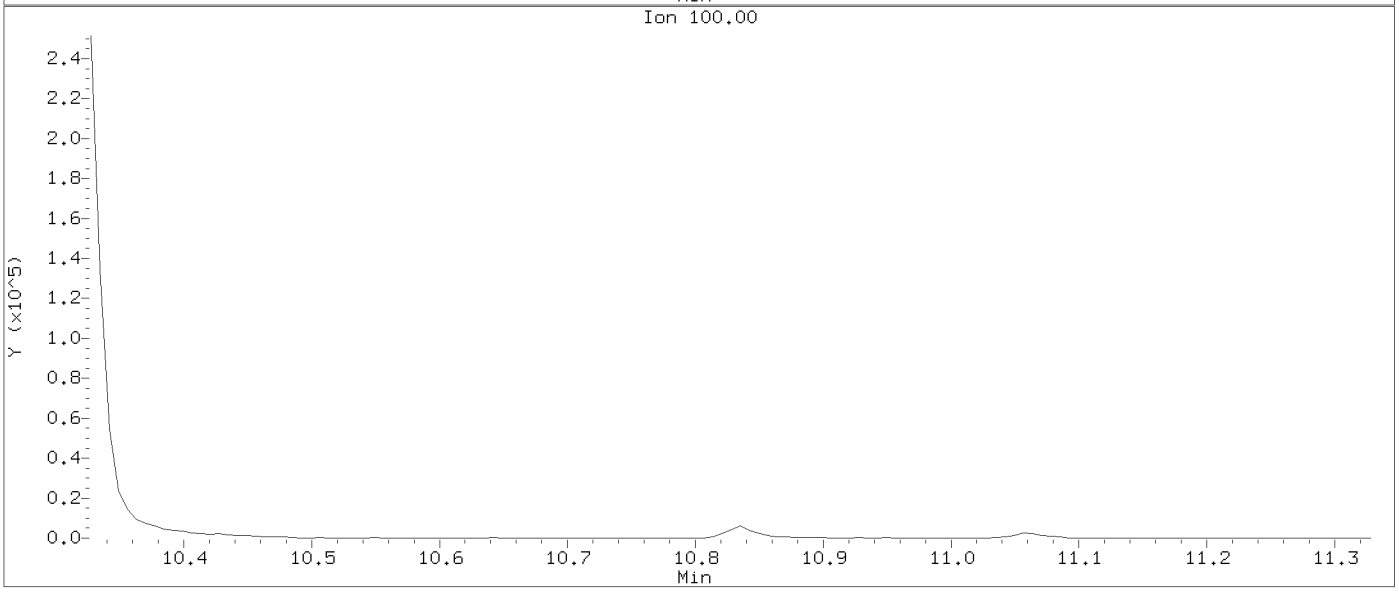
Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1017.D
Injection Date: 16-JAN-2015 11:08
Instrument: gcms-c.i
Client Sample ID:

Compound: 4-methyl-2-pentanone
CAS Number: 108-10-1

BEFORE MANUAL INTEGRATION



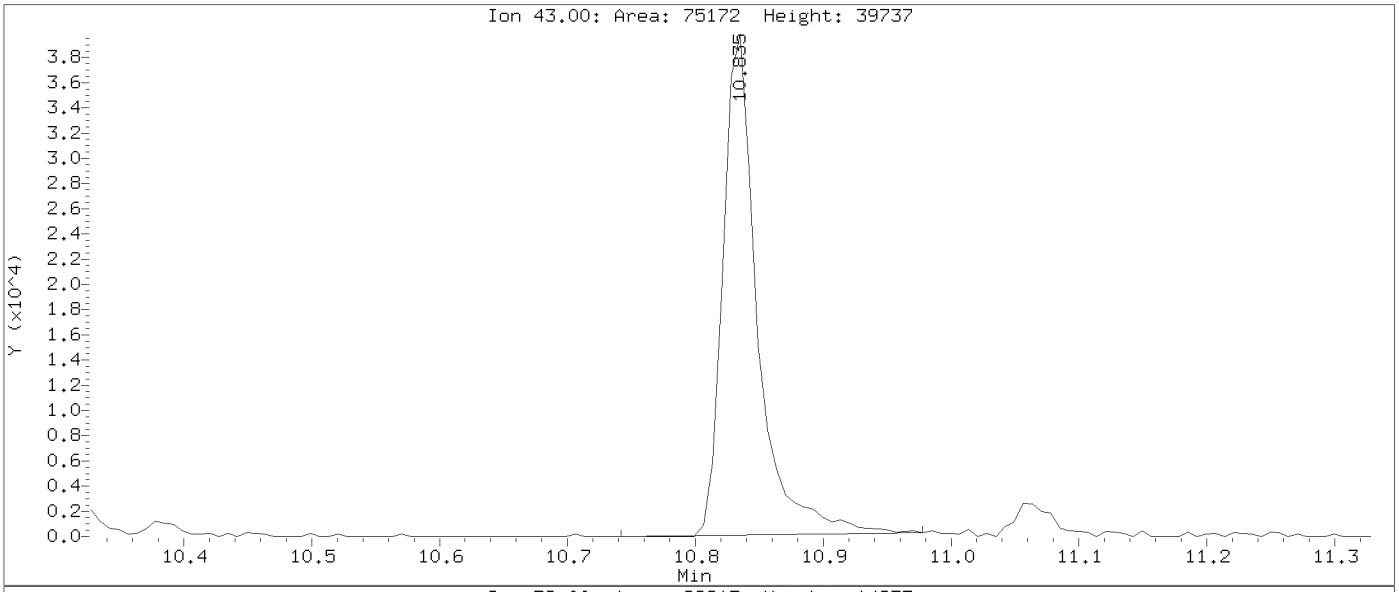


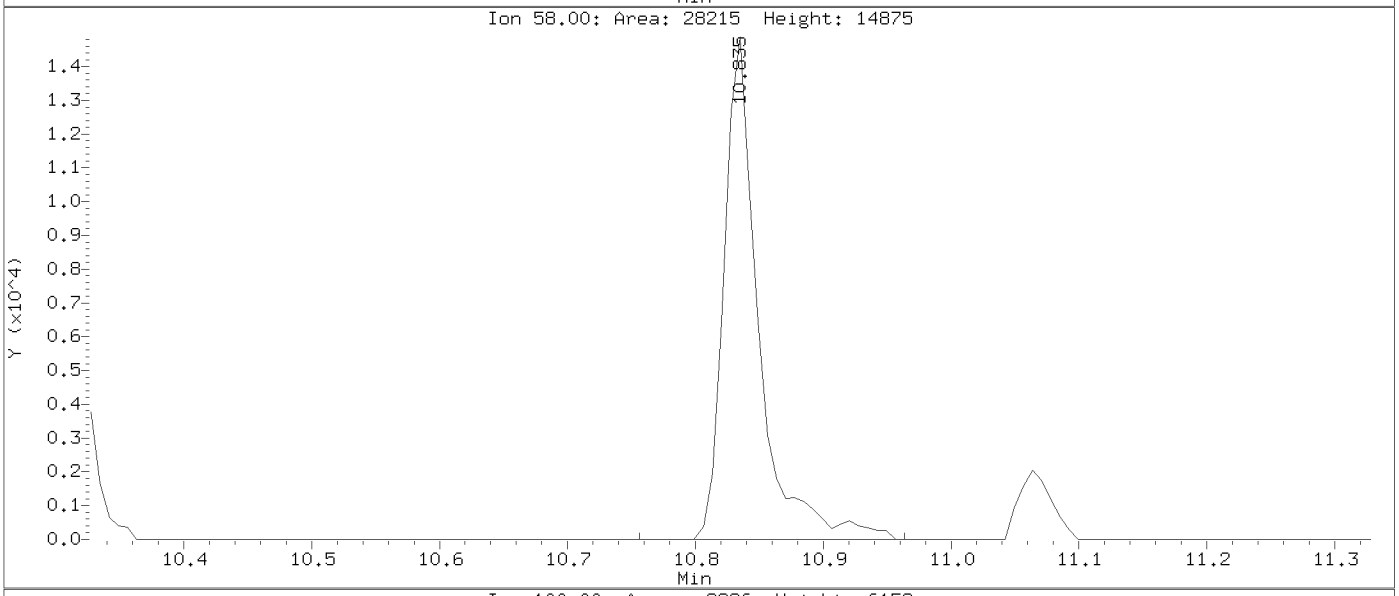


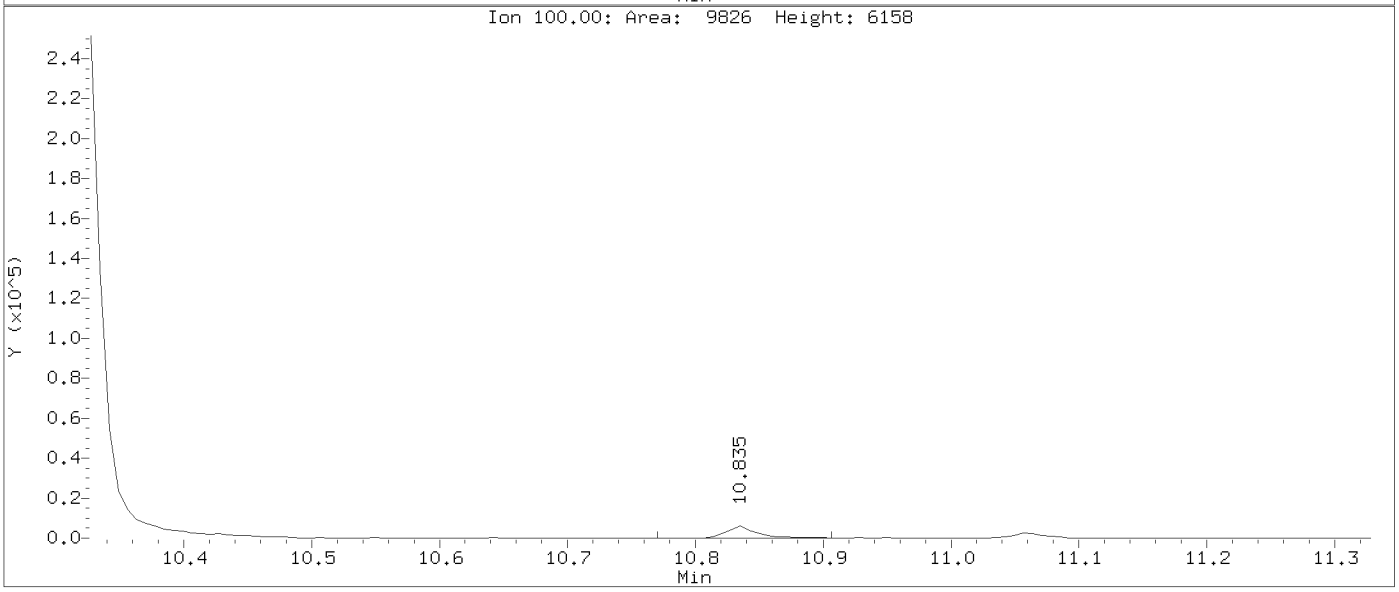
Data File: \\target_server\gg\chem\gcms-c.i\C011615.b\C1017.D
Injection Date: 16-JAN-2015 11:08
Instrument: gcms-c.i
Client Sample ID:

Compound: 4-methyl-2-pentanone
CAS Number: 108-10-1

AFTER MANUAL INTEGRATION







Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 12/29/14 B

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -8	CB983	1	-1	VOABFBAQ							Y	REC	7	
12/29/14 REC VSTD050C29A REC	C0792	1	1	C826A27							Y			W6156347-4
VSTD020C29A	93	1	2								Y			-3
VSTD005C29A	94	1	3								Y			-2
VSTD001C29A	95	1	4								Y			-1
VSTD200C29A	96	1	5								Y			-6
VSTD100C29A	97	1	6								Y			-5
LCSA	98	1	7								Y			Manually spiked Ind Check
LCSB	99	1	8								N			Instr. spike -7
LCI@20A	C0800	1	9								Y			
Rinse	01	1	10								N		6	1
Rinse	02	1	11								N		7	
Rinse	03	1	12								N			
														12/30/14 REC

STANDARD	CODE
BFB	V9643
CAL. STD.	V9664 V9663
LCS/MS MIX	V9658
EXTRAS MIX	V9665

STANDARD	CODE
IS MIX	V9657
SS MIX	V9668/ V9666

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 01/15/15 8:44

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	PREP METHOD 5035	PREP METHOD 1311	Criteria KAS	Criteria DoD	Criteria MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	CB993(A)	1	-1	V04BFBAQ							Y	REC	7	(A) -3
VSTD050C15A -4	C0994	1	1	C826A27							Y			SS double spiked
VSTD020C15A -2	95	1	2	C624A27							N			SS spiked @20 + Instr. Spike
VSTD020C15B -4	96	1	3	"							Y			
01/15/15 REC LCSA WG157004-1	97	1	4	C826A27							N			Compounds low
LCSB20A WG157009-1	98	1	5	C624A27							Y			
LCSB WG157004-1	99	1	6	C826A27							Y			
VBLKA	C0000	1	7	"							N			
VBLKB	01	1	8								N			
VBLKC	02	1	9								N			
VBLKD (A) -2	03(A)	1	10								Y			(A) -2 1SSP(D.D) hexaCPAL
SI0128-1 A	04	1	11		X			X			Y		12	
" -2 B	05	1	12								Y		2	
SI0132-3DL C	06	8	13								Y		12	5mL + 40mL
-4DL C	07	8	14								Y		12	"
01/15/15 REC -3 -4 C	08	1	15								Y		12	
-4 -4 C	09	1	16								Y		12	
Rinse	10	1	17								N		7	
Rinse	11	1	18								N			
Rinse	12	1	19								N			
SI0130-2 A	13	1	20		X				X		Y		12	
-3 A+B	14	1	21								Y		12	8:43
-4 A	15	1	22								N		12	1SSP 4ISTD/PAL
Rinse	16	1	23								N		2	OOC
														01/16/15 REC

STANDARD	CODE
BFB	V9677
CAL. STD.	V9675 V9676
LCS/MS MIX	V9674
EXTRAS MIX	V9665

STANDARD	CODE
IS MIX	V9673
SS MIX	V9678

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

GCMS-C INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 01/16/15

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50 ng DFB -3	CB994	1	-1	VOADFBAG							Y	REC	7	
VSTD020C16A -4	C1016	1	1	C624A27							Y			
LCS@20A W6157065-1	17	1	2								Y			
VBLKA	18	1	3								N			
VBLKB	19	1	4								N			
VBLKC -2	20	1	5								Y		L	
SI0230-4RA B	21	1	6		X				X		Y		2	1558 (DoD only)
Rinse	22	1	7										2	
SI0232-3DL	23	5	8	C624A27	X			X						

STANDARD	CODE
BFB	V9677
CAL. STD.	V9675 V9676
LCS/MS MIX	V9674
EXTRAS MIX	V9665

STANDARD	CODE
IS MIX	V9673
SS MIX	V9678

Circle Methods:

(SW846 8260) OLM 04.2

SW846 8260 SIM OLC 03.2

SW846 8260 SIM (heated purge) EPA 624

EPA 524

VOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** SL
Lab Code: KAS **SDG:** SI0230

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
IDWS-0312-011315	SI0230-1RA		96.2		114.		108.		115.	
Laboratory Control S	WG157196-8		93.4		97.7		94.2		99.7	
Method Blank Sample	WG157196-9		93.1		98.3		96.8		101.	

		QC Limits
DBF	DIBROMOFLUOROMETHANE	64-130
TOL	TOLUENE-D8	85-115
BFB	P-BROMOFLUOROBENZENE	85-120
DCA	1,2-DICHLOROETHANE-D4	58-134

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG157196-9
Lab File ID : W1910.D
Date Analyzed : 19-JAN-15
Instrument ID : GCMS-W
Time Analyzed : 15:38
Heated Purge : Yes

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG157196-8	W1908.D	01/19/15	14:15
IDWS-0312-011315	SI0230-1RA	W1912.D	01/19/15	16:43

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : WB111.D
Instrument ID : GCMS-W

SDG : SI0230
Date Analyzed : 19-JAN-15
Time Analyzed : 09:07
Heated Purge : Yes

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	16.8		
75	30.0 - 60.0% of mass 95	46.9		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.0		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	75.1		
175	5.0 - 9.0% of mass 174	6.0	7.98	1
176	95.0 - 101.0% of mass 174	74.6	99.32	1
177	5.0 - 9.0% of mass 176	4.2	5.61	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG157196-4	W1902.D	01/19/15	10:27
Initial Calibration	WG157196-6	W1903.D	01/19/15	11:19
Initial Calibration	WG157196-5	W1904.D	01/19/15	11:51
Initial Calibration	WG157196-3	W1905.D	01/19/15	12:24
Initial Calibration	WG157196-2	W1906.D	01/19/15	12:56
Initial Calibration	WG157196-1	W1907.D	01/19/15	13:29
Laboratory Control S	WG157196-8	W1908.D	01/19/15	14:15
Independent Source	WG157196-7	W1908A.D	01/19/15	14:15
Method Blank Sample	WG157196-9	W1910.D	01/19/15	15:38
IDWS-0312-011315	SI0230-1RA	W1912.D	01/19/15	16:43

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG157196-4
Lab File ID : W1902.D

SDG: SI0230
Analytical Date: 01/19/15 10:27
Instrument ID: GCMS-W

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	607035		8.47		877633		9.47		808211		14.24	
	Upper Limit	1214070		8.97		1755266		9.97		1616422		14.74	
	Lower Limit	303517.5		7.97		438816.5		8.97		404105.5		13.74	
Client Sample ID	Lab Sample ID												
Laboratory Control S	WG157196-8	673852		8.47		978053		9.47		863568		14.25	
Method Blank Sample	WG157196-9	632484		8.47		903445		9.47		825016		14.24	
IDWS-0312-011315	SI0230-1RA	532062		8.47		767745		9.47		680756		14.24	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG157196-4
Lab File ID : W1902.D

SDG: SI0230
Analytical Date: 01/19/15 10:27
Instrument ID: GCMS-W

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	502207		18.07	
	Upper Limit	1004414		18.57	
	Lower Limit	251103.5		17.57	
Client Sample ID	Lab Sample ID				
Laboratory Control S	WG157196-8	517849		18.06	
Method Blank Sample	WG157196-9	492440		18.07	
IDWS-0312-011315	SI0230-1RA	365280		18.06	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-1RA
Client ID: IDWS-0312-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: W1912.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 19-JAN-15
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG157196

Analysis Date: 19-JAN-15
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 79.
Report Date: 20-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	6.0	ug/Kgdrywt	1	10	12.	1.1	6.0
Trichlorofluoromethane	U	6.0	ug/Kgdrywt	1	10	12.	1.1	6.0
Freon-113	U	3.0	ug/Kgdrywt	1	5	6.0	1.1	3.0
Methyl Acetate	U	3.6	ug/Kgdrywt	1	5	6.0	3.2	3.6
Methyl tert-butyl Ether	U	3.0	ug/Kgdrywt	1	5	6.0	1.3	3.0
Cyclohexane	U	3.0	ug/Kgdrywt	1	5	6.0	1.7	3.0
Methylcyclohexane	U	3.0	ug/Kgdrywt	1	5	6.0	1.2	3.0
1,2-Dibromoethane	U	3.0	ug/Kgdrywt	1	5	6.0	1.4	3.0
Isopropylbenzene	U	3.0	ug/Kgdrywt	1	5	6.0	1.1	3.0
Chloromethane	U	6.0	ug/Kgdrywt	1	10	12.	1.7	6.0
Bromomethane	U	6.0	ug/Kgdrywt	1	10	12.	1.3	6.0
Vinyl Chloride	U	6.0	ug/Kgdrywt	1	10	12.	1.0	6.0
Chloroethane	U	6.0	ug/Kgdrywt	1	10	12.	1.6	6.0
Methylene Chloride	U	15	ug/Kgdrywt	1	25	30.	9.5	15.
Acetone	U	15	ug/Kgdrywt	1	25	30.	6.1	15.
Carbon Disulfide	J	1.6	ug/Kgdrywt	1	5	6.0	0.94	3.0
1,1-Dichloroethene	U	3.0	ug/Kgdrywt	1	5	6.0	1.1	3.0
1,1-Dichloroethane	U	3.0	ug/Kgdrywt	1	5	6.0	2.0	3.0
cis-1,2-Dichloroethene	U	3.0	ug/Kgdrywt	1	5	6.0	1.1	3.0
trans-1,2-Dichloroethene	U	3.0	ug/Kgdrywt	1	5	6.0	0.85	3.0
Chloroform	U	3.0	ug/Kgdrywt	1	5	6.0	0.42	3.0
1,2-Dichloroethane	U	3.0	ug/Kgdrywt	1	5	6.0	1.2	3.0
2-Butanone	U	15	ug/Kgdrywt	1	25	30.	7.1	15.
1,1,1-Trichloroethane	U	3.0	ug/Kgdrywt	1	5	6.0	0.50	3.0
Carbon Tetrachloride	U	3.0	ug/Kgdrywt	1	5	6.0	1.6	3.0
Bromodichloromethane	U	3.0	ug/Kgdrywt	1	5	6.0	0.72	3.0
1,2-Dichloropropane	U	3.0	ug/Kgdrywt	1	5	6.0	1.7	3.0
cis-1,3-Dichloropropene	U	3.0	ug/Kgdrywt	1	5	6.0	0.86	3.0
Trichloroethene	U	3.0	ug/Kgdrywt	1	5	6.0	0.71	3.0
Dibromochloromethane	U	3.0	ug/Kgdrywt	1	5	6.0	1.2	3.0
1,1,2-Trichloroethane	U	3.0	ug/Kgdrywt	1	5	6.0	1.2	3.0
Benzene	U	3.0	ug/Kgdrywt	1	5	6.0	1.1	3.0
trans-1,3-Dichloropropene	U	3.0	ug/Kgdrywt	1	5	6.0	1.0	3.0
Bromoform	U	3.0	ug/Kgdrywt	1	5	6.0	0.84	3.0
4-Methyl-2-Pentanone	U	15	ug/Kgdrywt	1	25	30.	7.1	15.

600 Technology Way
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Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-1RA
Client ID: IDWS-0312-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: W1912.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 19-JAN-15
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG157196

Analysis Date: 19-JAN-15
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 79.
Report Date: 20-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2-Hexanone	U	15	ug/Kgdrywt	1	25	30.	5.8	15.
Tetrachloroethene	U	3.0	ug/Kgdrywt	1	5	6.0	1.4	3.0
1,1,2,2-Tetrachloroethane	U	3.0	ug/Kgdrywt	1	5	6.0	1.0	3.0
Toluene	U	3.0	ug/Kgdrywt	1	5	6.0	1.7	3.0
Chlorobenzene	U	3.0	ug/Kgdrywt	1	5	6.0	0.61	3.0
Ethylbenzene	U	3.0	ug/Kgdrywt	1	5	6.0	0.78	3.0
Styrene	U	3.0	ug/Kgdrywt	1	5	6.0	0.61	3.0
m+p-Xylenes	U	6.0	ug/Kgdrywt	1	10	12.	2.0	6.0
o-Xylene	U	3.0	ug/Kgdrywt	1	5	6.0	1.6	3.0
Xylenes (Total)	U	9.0	ug/Kgdrywt	1	15	18.	1.6	9.0
1,3-Dichlorobenzene	U	3.0	ug/Kgdrywt	1	5	6.0	0.74	3.0
1,4-Dichlorobenzene	U	3.0	ug/Kgdrywt	1	5	6.0	0.53	3.0
1,2-Dichlorobenzene	U	3.0	ug/Kgdrywt	1	5	6.0	0.94	3.0
1,2-Dibromo-3-Chloropropane	U	3.0	ug/Kgdrywt	1	5	6.0	1.8	3.0
1,2,4-Trichlorobenzene	U	3.0	ug/Kgdrywt	1	5	6.0	0.95	3.0
1,2,3-Trichlorobenzene	U	3.0	ug/Kgdrywt	1	5	6.0	0.91	3.0
Dibromofluoromethane		114.	%					
1,2-Dichloroethane-d4		108.	%					
Toluene-d8		115.	%					
P-Bromofluorobenzene		96.2	%					

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Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1912.D
Report Date: 20-Jan-2015 10:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1912.D
Lab Smp Id: SI0230-1RA Client Smp ID: IDWS-0312-011315
Inj Date : 19-JAN-2015 16:43
Operator : REC Inst ID: gcms-w.i
Smp Info : SI0230-1RA
Misc Info : WG157196,WG157196-4
Comment   : SW846 5035
Method   : \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 13:29 Cal File: W1907.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

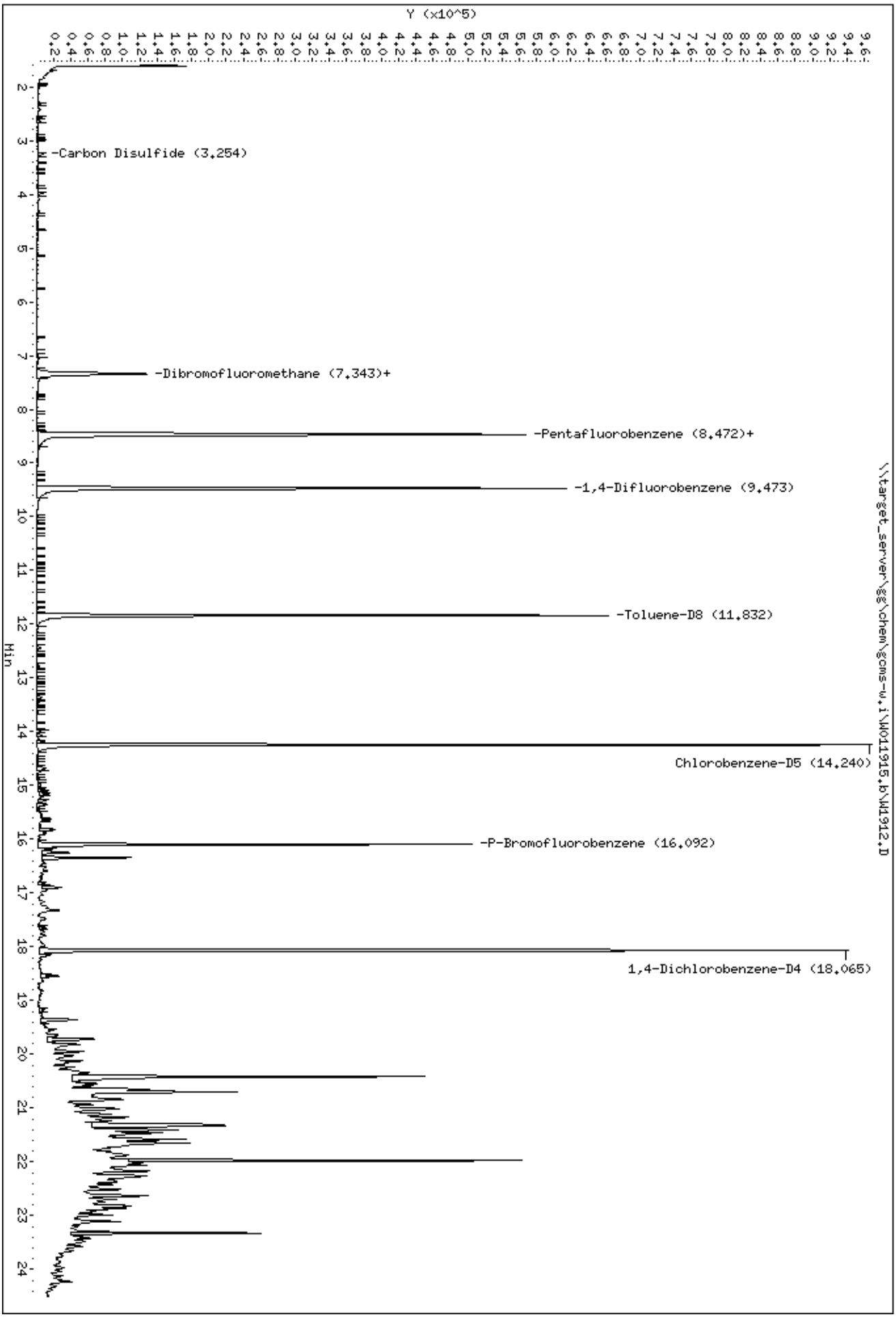
Name	Value	Description
DF	1.000	Dilution Factor
M	20.570	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.060	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kgdrywt)	REVIEW COD
	10 Carbon Disulfide	76	3.253	3.252	(0.384)	7844	1.33165	1.6(a)	
	36 Tetrahydrofuran	42	7.299	7.262	(0.862)	7031	10.0041	12.4(aM)	M9
$	37 Dibromofluoromethane	113	7.335	7.341	(0.866)	130475	56.8635	70.7	
*	42 Pentafluorobenzene	168	8.472	8.470	(1.000)	532062	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.464	8.470	(0.999)	132626	54.1216	67.3	
*	49 1,4-Difluorobenzene	114	9.472	9.471	(1.000)	767745	50.0000		
$	55 Toluene-D8	98	11.831	11.830	(1.249)	560179	57.6851	71.8	
*	66 Chlorobenzene-D5	117	14.240	14.239	(1.000)	680756	50.0000		
$	76 P-Bromofluorobenzene	95	16.091	16.090	(1.699)	191095	48.0937	59.8	
*	91 1,4-Dichlorobenzene-D4	152	18.064	18.070	(1.000)	365280	50.0000		

REC
10:22 am, Jan 20, 2015

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^5)
Min
-Carbon Disulfide (3,254)
-Dibromofluoromethane (7,343)+
-Pentafluorobenzene (8,472)+
-1,4-Difluorobenzene (9,473)
-Toluene-D8 (11,832)
Chlorobenzene-D5 (14,240)
-P-Bromofluorobenzene (16,092)
1,4-Dichlorobenzene-D4 (18,065)
\\target_server\gg\chem\gcms-w,i\W011915,b\W1912,D
Data File: \\target_server\gg\chem\gcms-w,i\W011915,b\W1912,D
Date : 19-JAN-2015 16:43
Client ID: IDWS-0312-011315
Sample Info: SI0230-1RA
Instrument: gcms-w,i

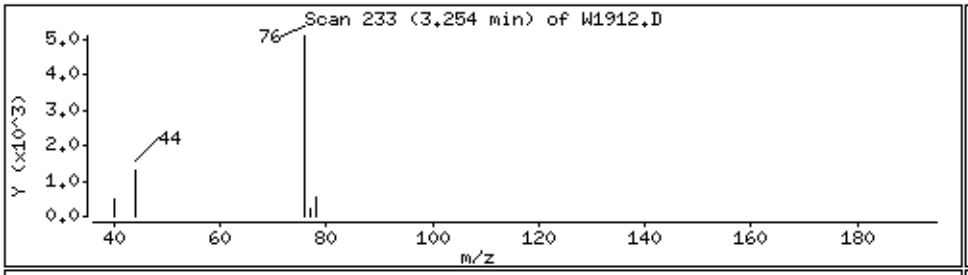
Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1912.D

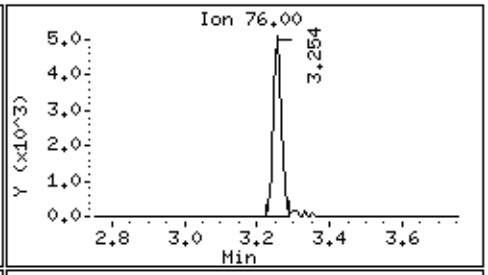
Date : 19-JAN-2015 16:43

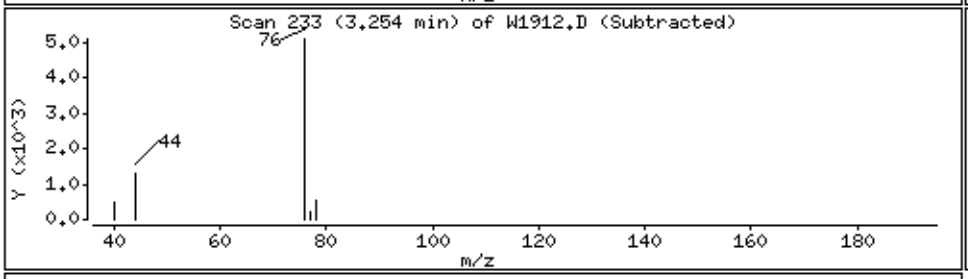
Client ID: IDWS-0312-011315 Instrument: gcms-w.i

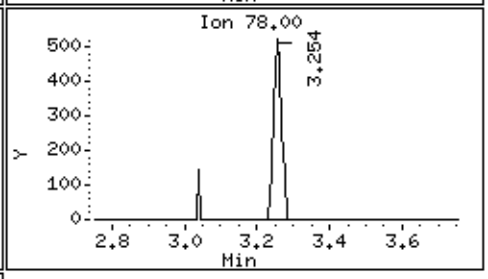
Sample Info: SI0230-1RA

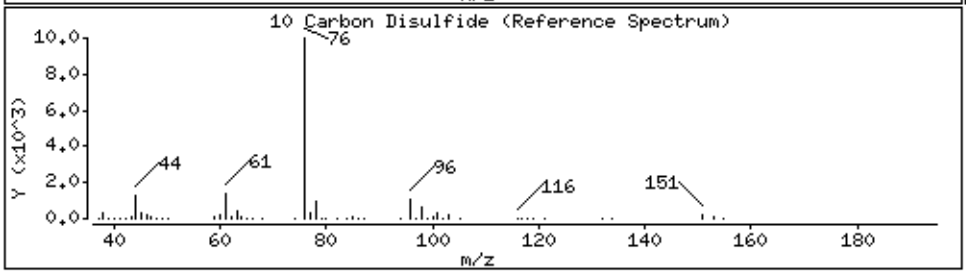
10 Carbon Disulfide Concentration: 1.6 ug/Kgdrywt



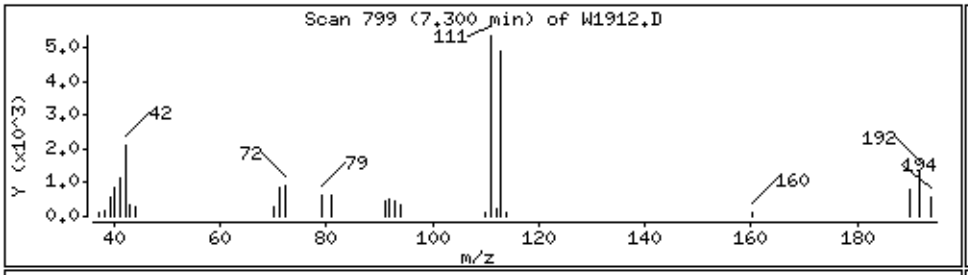


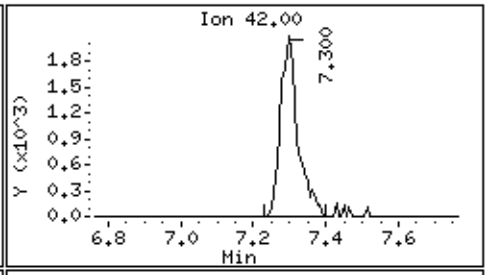


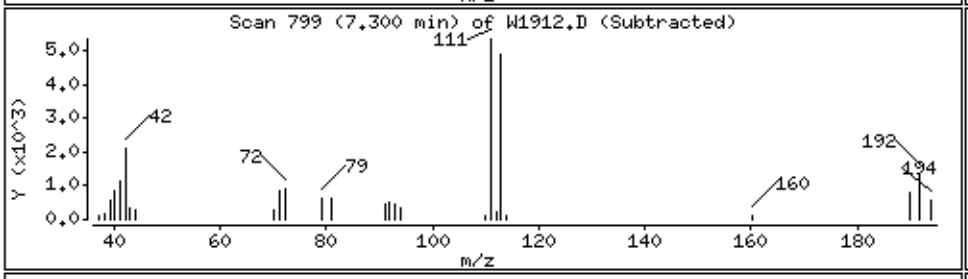


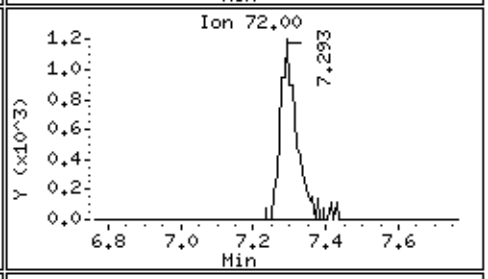


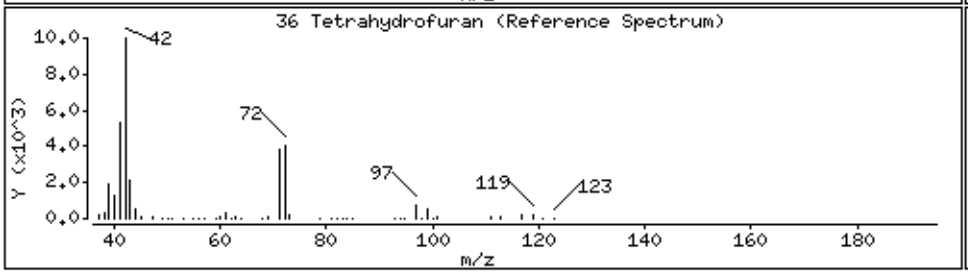
36 Tetrahydrofuran Concentration: 12.4 ug/Kgdrywt

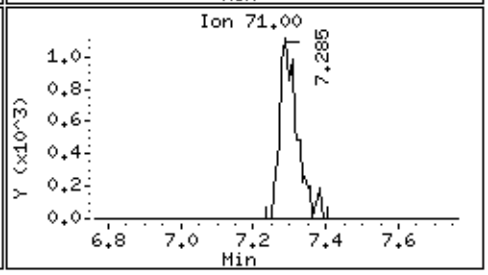












Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-W
Lab File IDs : W1907.D W1906.D W1905.D **Column ID:**
W1902.D W1904.D W1903.D **Calibration Date(s):** 19-JAN-15 09:41
19-JAN-15 13:29

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	5.0000	10.0000	20.0000	50.0000	100.0000	200.0000	New	b	m1	m2	%RSD	%RSD	
Dichlorodifluoromethane	0.28241	0.29719	0.26420	0.38059	0.30173	0.34740	AVG		0.31225		13.9173	15.00000	O
Chloromethane	0.28287	0.32564	0.29561	0.31572	0.28658	0.28911	AVG		0.29926		5.81193	15.00000	O
Vinyl chloride	0.25225	0.28833	0.26408	0.31110	0.28129	0.30570	AVG		0.28379		8.09131	15.00000	O
Bromomethane	0.16672	0.16861	0.15873	0.15103	0.13905	0.12403	AVG		0.15136		11.3923	15.00000	O
Chloroethane	0.10340	0.10638	0.08829	0.10625	0.08617	0.09114	AVG		0.09694		9.69759	15.00000	O
Trichlorofluoromethane	0.32738	0.35226	0.31605	0.41127	0.31428	+++++	AVG		0.34425		11.7397	15.00000	O
1,1-Dichloroethene	0.20034	0.21653	0.19623	0.23083	0.20603	0.20924	AVG		0.20987		5.93561	15.00000	O
Carbon Disulfide	0.52760	0.57571	0.53108	0.60388	0.54644	0.53659	AVG		0.55355		5.44368	15.00000	O
Freon-113	0.18731	0.19012	0.16705	0.20198	0.18050	0.17453	AVG		0.18358		6.71409	15.00000	O
Methylene Chloride	34244	58056	91189	161013	343997	604663	LNR	-0.12810	0.23240		0.99989	0.99000	O
Acetone	0.06588	0.06832	0.06601	0.06703	0.06729	0.06830	AVG		0.06714		1.57986	15.00000	O
trans-1,2-Dichloroethene	0.23545	0.26642	0.24494	0.25411	0.23744	0.23132	AVG		0.24495		5.40724	15.00000	O
Methyl tert-butyl ether	0.72085	0.75962	0.77103	0.73274	0.74903	0.70380	AVG		0.73951		3.39815	15.00000	O
1,1-Dichloroethane	0.39975	0.44347	0.41987	0.42289	0.40612	0.39610	AVG		0.41470		4.26545	15.00000	O
cis-1,2-Dichloroethene	0.28587	0.32220	0.30794	0.31109	0.30336	0.29731	AVG		0.30463		4.06966	15.00000	O
Chloroform	0.41297	0.45869	0.43859	0.46320	0.44194	0.44164	AVG		0.44284		4.01204	15.00000	O
Carbon Tetrachloride	0.17381	0.19616	0.19244	0.24546	0.22304	0.22648	AVG		0.20957		12.6384	15.00000	O
1,1,1-Trichloroethane	0.36203	0.40449	0.38322	0.44447	0.40098	0.41300	AVG		0.40136		6.94033	15.00000	O
2-Butanone	0.09050	0.10046	0.10307	0.10191	0.11289	0.11626	AVG		0.10418		8.89422	15.00000	O
Benzene	0.69644	0.77059	0.75862	0.74716	0.72993	0.67308	AVG		0.72930		5.17601	15.00000	O
Cyclohexane	0.32409	0.34849	0.32323	0.37307	0.34857	0.34959	AVG		0.34451		5.42036	15.00000	O
1,2-Dichloroethane	0.21785	0.22134	0.21696	0.22898	0.21693	0.21588	AVG		0.21966		2.24861	15.00000	O
Trichloroethene	0.18663	0.20421	0.19061	0.20148	0.19225	0.18141	AVG		0.19277		4.51257	15.00000	O
1,2-Dichloropropane	0.14755	0.15584	0.15676	0.15519	0.15808	0.15127	AVG		0.15412		2.56466	15.00000	O
Bromodichloromethane	0.21190	0.22470	0.22741	0.25198	0.24084	0.24321	AVG		0.23334		6.27010	15.00000	O
cis-1,3-dichloropropene	0.26061	0.28496	0.31064	0.32128	0.32243	0.31555	AVG		0.30258		8.16056	15.00000	O
Toluene	0.52511	0.56255	0.54995	0.55767	0.53150	0.49322	AVG		0.53667		4.81222	15.00000	O
4-methyl-2-pentanone	0.11817	0.13482	0.14369	0.14353	0.14839	0.14329	AVG		0.13865		7.89731	15.00000	O
Tetrachloroethene	0.20331	0.22645	0.21260	0.23164	0.22298	0.20707	AVG		0.21734		5.22214	15.00000	O
trans-1,3-Dichloropropene	0.26061	0.28496	0.31064	0.32128	0.32243	0.31555	AVG		0.30258		8.16056	15.00000	O
1,1,2-Trichloroethane	0.12808	0.13243	0.13499	0.13602	0.13397	0.13487	AVG		0.13339		2.14903	15.00000	O
Dibromochloromethane	0.19280	0.20537	0.21692	0.23899	0.23223	0.24029	AVG		0.22110		8.76599	15.00000	O
1,2-Dibromoethane	0.15654	0.17360	0.17647	0.18347	0.18614	0.18918	AVG		0.17757		6.67391	15.00000	O
2-Hexanone	0.09108	0.10627	0.11633	0.11666	0.12587	0.12465	AVG		0.11348		11.4933	15.00000	O
Chlorobenzene	0.70276	0.76677	0.73430	0.73279	0.68639	0.63412	AVG		0.70952		6.51958	15.00000	O
Ethylbenzene	0.36962	0.40435	0.38674	0.39840	0.37553	0.34845	AVG		0.38052		5.38440	15.00000	O
Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+0	15.00000	M

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-W
Lab File IDs : W1907.D W1906.D W1905.D **Column ID:**
W1902.D W1904.D W1903.D **Calibration Date(s):** 19-JAN-15 09:41
19-JAN-15 13:29

m+p-Xylenes	0.44784	0.49996	0.48685	0.49492	0.45157	0.39634	AVG		0.46291		8.50923	15.00000	O
o-Xylene	0.40801	0.46984	0.47518	0.48796	0.46923	0.44029	AVG		0.45842		6.37529	15.00000	O
Styrene	0.63586	0.73818	0.75754	0.77068	0.73831	0.68612	AVG		0.72112		7.03393	15.00000	O
Bromoform	0.12475	0.14215	0.15136	0.16696	0.16836	0.18146	AVG		0.15584		13.18503	15.00000	O
Isopropylbenzene	1.77607	2.05862	1.97794	2.04930	1.83064	1.58176	AVG		1.87905		9.88033	15.00000	O
1,1,2,2-Tetrachloroethane	0.40662	0.43516	0.43712	0.42834	0.43992	0.43112	AVG		0.42971		2.80442	15.00000	O
1,3-Dichlorobenzene	1.07048	1.16181	1.11393	1.13149	1.05915	0.97666	AVG		1.08559		6.04205	15.00000	O
1,4-Dichlorobenzene	1.06337	1.11504	1.07725	1.10435	1.03878	0.95112	AVG		1.05832		5.60473	15.00000	O
1,2-Dichlorobenzene	1.01894	1.11338	1.07204	1.09300	1.03974	0.95561	AVG		1.04878		5.44776	15.00000	O
1,2-Dibromo-3-Chloropropane	0.08457	0.08678	0.09763	0.11082	0.10932	0.10982	AVG		0.09982		12.01061	15.00000	O
1,2,4-Trichlorobenzene	0.78914	0.89204	0.88674	0.89920	0.81304	0.71994	AVG		0.83335		8.62994	15.00000	O
1,2,3-Trichlorobenzene	0.84114	0.88117	0.87909	0.87040	0.78264	0.70044	AVG		0.82581		8.68303	15.00000	O
Methyl Acetate	0.16064	0.14538	0.14251	0.14411	0.14624	0.15840	AVG		0.14955		5.25558	15.00000	O
Methylcyclohexane	0.44408	0.47917	0.44049	0.51119	0.50311	0.47839	AVG		0.47607		6.13791	15.00000	O
Dibromofluoromethane	0.19961	0.22714	0.21528	0.22448	0.20861	0.21863	AVG		0.21563		4.75693	15.00000	
1,2-Dichloroethane-D4	0.22470	0.23403	0.22739	0.24423	0.21774	0.23362	AVG		0.23029		3.96312	15.00000	
Toluene-D8	0.58434	0.65990	0.65417	0.66468	0.63379	0.59773	AVG		0.63244		5.37872	15.00000	
P-Bromofluorobenzene	0.23006	0.25760	0.25929	0.27005	0.26104	0.27458	AVG		0.25877		6.00804	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1908A.D
Report Date: 20-Jan-2015 10:14

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: WG157196
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: WG157196-7 Client Smp ID: Independent Source
Level: LOW Operator: REC
Data Type: MS DATA SampleType: INDSOURCE
SpikeList File: IND_CHECK4.1.spk Quant Type: ISTD
Sublist File: SW8260-S.sub
Method File: \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Misc Info: WG157196,WG157196-4

	SPIKE	COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
	1	Dichlorodifluorome	50.0	51.8	103.69	80-120
	2	Chloromethane	50.0	49.1	98.29	80-120
	3	Vinyl chloride	50.0	50.3	100.64	80-120
	4	Bromomethane	50.0	47.1	94.25	80-120
	5	Chloroethane	50.0	48.6	97.22	80-120
	6	Trichlorofluoromet	50.0	54.6	109.25	80-120
	7	Diethyl Ether	50.0	48.4	96.75	80-120
	8	Tertiary-butyl alc	250	255	101.93	80-120
	9	1,1-Dichloroethene	50.0	46.4	92.79	80-120
	10	Carbon Disulfide	50.0	58.6	117.27	80-120
	11	Freon-113	50.0	54.4	108.91	80-120
	12	Iodomethane	50.0	54.6	109.24	80-120
	13	Acrolein	250	251	100.52	80-120
	14	Methylene Chloride	50.0	43.3	86.59	80-120
	15	Acetone	50.0	57.5	115.04	80-120
	16	Isobutyl Alcohol	1000	894	89.35	80-120
	17	trans-1,2-Dichloro	50.0	46.3	92.56	80-120
	18	Allyl Chloride	50.0	51.7	103.45	80-120
	19	Methyl tert-butyl	100	99.4	99.42	80-120
	20	Acetonitrile	500	518	103.52	80-120
	21	Di-isopropyl ether	50.0	52.3	104.62	80-120
	22	Chloroprene	50.0	55.0	109.92	80-120
	23	Propionitrile	500	492	98.42	80-120
	24	Methacrylonitrile	500	486	97.20	80-120
	25	1,1-Dichloroethane	50.0	49.1	98.22	80-120
	26	Acrylonitrile	250	246	98.23	80-120
	27	Ethyl tertiary-but	50.0	51.0	101.93	80-120
	28	Vinyl Acetate	50.0	47.0	94.03	80-120
	29	cis-1,2-Dichloroet	50.0	48.8	97.54	80-120
M	30	1,2-Dichloroethyle	100	95.0	95.05	80-120
	31	Methyl Methacrylat	50.0	45.2	90.42	80-120
	32	2,2-Dichloropropan	50.0	49.0	98.00	80-120
	33	Bromochloromethane	50.0	46.2	92.30	80-120
	34	Chloroform	50.0	47.2	94.37	80-120
	35	Carbon Tetrachlori	50.0	51.4	102.85	80-120
	36	Tetrahydrofuran	50.0	46.1	92.18	80-120
	38	1,1,1-Trichloroeth	50.0	49.3	98.64	80-120
	39	1,1-Dichloropropen	50.0	52.3	104.59	80-120
	40	2-Butanone	50.0	45.8	91.72	80-120
	41	Benzene	50.0	48.7	97.36	80-120

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Report Date: 20-Jan-2015 10:14

	SPIKE	COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	55.2	110.49	80-120
	44	Ethyl Methacrylate	50.0	50.9	101.80	80-120
	46	Tertiary-amyl meth	50.0	49.5	99.00	80-120
	47	1,2-Dichloroethane	50.0	45.2	90.32	80-120
	48	Trichloroethene	50.0	48.0	96.08	80-120
	50	Dibromomethane	50.0	46.5	92.99	80-120
	51	1,2-Dichloropropan	50.0	47.9	95.73	80-120
	52	Bromodichlorometha	50.0	47.5	95.05	80-120
	53	cis-1,3-dichloropr	50.0	45.6	91.20	80-120
	54	1,4-Dioxane	1000	1090	108.66	80-120
	56	2-Chloroethylvinyl	50.0	42.0	83.96	80-120
	57	Toluene	50.0	48.0	95.97	80-120
	58	4-methyl-2-pentano	50.0	45.3	90.63	80-120
	59	Tetrachloroethene	50.0	50.9	101.85	80-120
	60	trans-1,3-Dichloro	50.0	45.6	91.20	80-120
	61	1,1,2-Trichloroeth	50.0	46.4	92.82	80-120
	62	Dibromochlorometha	50.0	47.5	94.95	80-120
	63	1,3-Dichloropropan	50.0	48.2	96.36	80-120
	64	1,2-Dibromoethane	50.0	45.7	91.47	80-120
	65	2-Hexanone	50.0	45.1	90.26	80-120
	67	Chlorobenzene	50.0	47.2	94.50	80-120
	152	1-Chlorohexane	50.0	52.2	104.45	80-120
	68	Ethylbenzene	50.0	49.3	98.64	80-120
	69	1,1,1,2-Tetrachlor	50.0	48.9	97.84	80-120
M	70	Xylenes (total)	150	147	97.86	80-120
	71	m+p-Xylenes	100	98.1	98.14	80-120
	72	o-Xylene	50.0	48.6	97.29	80-120
	73	Styrene	50.0	50.5	101.07	80-120
	74	Bromoform	50.0	46.3	92.64	80-120
	75	Isopropylbenzene	50.0	51.1	102.13	80-120
	77	cis-1,4-Dichloro-2	50.0	48.3	96.55	80-120
	78	trans-1,4-Dichloro	50.0	47.4	94.83	80-120
	79	Bromobenzene	50.0	49.0	98.03	80-120
	80	N-Propylbenzene	50.0	50.6	101.21	80-120
	81	1,1,2,2-Tetrachlor	50.0	45.5	91.01	80-120
	82	1,3,5-Trimethylben	50.0	49.6	99.20	80-120
	83	2-Chlorotoluene	50.0	48.0	96.00	80-120
	84	1,2,3-Trichloropro	50.0	46.8	93.69	80-120
	85	4-Chlorotoluene	50.0	48.3	96.59	80-120
	86	tert-Butylbenzene	50.0	50.8	101.63	80-120
	87	Pentachloroethane	50.0	52.1	104.29	80-120
	88	1,2,4-Trimethylben	50.0	50.5	101.05	80-120
	89	P-Isopropyltoluene	50.0	52.4	104.78	80-120
	90	1,3-Dichlorobenzen	50.0	46.2	92.35	80-120
	92	1,4-Dichlorobenzen	50.0	47.7	95.41	80-120
	93	N-Butylbenzene	50.0	50.9	101.73	80-120
	94	sec-Butylbenzene	50.0	50.8	101.59	80-120
	95	1,2-Dichlorobenzen	50.0	46.3	92.62	80-120
	96	1,2-Dibromo-3-Chlo	50.0	49.5	99.02	80-120
	97	1,3,5-Trichloroben	50.0	46.7	93.46	80-120
	98	Hexachlorobutadien	50.0	51.6	103.20	80-120
	99	1,2,4-Trichloroben	50.0	47.1	94.26	80-120
	100	1,2,3-Trimethylben	50.0	49.3	98.57	80-120
	101	Naphthalene	50.0	47.9	95.88	80-120

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SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	46.5	92.99	80-120
103 Methyl Acetate	50.0	54.2	108.32	80-120
104 Methylcyclohexane	50.0	56.4	112.74	80-120
M 153 Total Alkylbenzene	350	356	101.60	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/kg	AMOUNT RECOVERED ug/kg	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	48.8	97.68	64-130
$ 45 1,2-Dichloroethane	50.0	47.1	94.22	58-134
$ 55 Toluene-D8	50.0	49.8	99.69	67-118
$ 76 P-Bromofluorobenze	50.0	46.7	93.40	47-119

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1902.D
Report Date: 20-Jan-2015 08:15

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1902.D
Lab Smp Id: WG157196-4 Client Smp ID: Initial Calibration
Inj Date : 19-JAN-2015 10:27
Operator : REC Inst ID: gcms-w.i
Smp Info : WG157196-4
Misc Info :
Comment : SW846 5035
Method : \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 10:27 Cal File: W1902.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.000	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.736	1.737	(0.205)	231032	50.0000	50.0	
2	Chloromethane	50	1.951	1.951	(0.230)	191652	50.0000	50.0	
3	Vinyl chloride	62	2.022	2.023	(0.239)	188849	50.0000	50.0	
4	Bromomethane	94	2.365	2.366	(0.279)	91679	50.0000	50.0	
5	Chloroethane	64	2.494	2.495	(0.295)	64495	50.0000	50.0	
6	Trichlorofluoromethane	101	2.637	2.638	(0.311)	249653	50.0000	50.0	
7	Diethyl Ether	59	3.009	3.009	(0.355)	96058	50.0000	50.0	
8	Tertiary-butyl alcohol	59	5.696	5.697	(0.673)	398479	250.000	250	
9	1,1-Dichloroethene	96	3.223	3.224	(0.381)	140124	50.0000	50.0	
10	Carbon Disulfide	76	3.252	3.252	(0.384)	366575	50.0000	50.0	
11	Freon-113	151	3.273	3.274	(0.386)	122607	50.0000	50.0	
12	Iodomethane	142	3.402	3.402	(0.402)	151550	50.0000	50.0	
13	Acrolein	56	3.674	3.674	(0.434)	77995	250.000	250	
14	Methylene Chloride	84	3.988	3.989	(0.471)	161013	50.0000	50.0	
15	Acetone	43	4.088	4.089	(0.483)	203443	250.000	250	
16	Isobutyl Alcohol	43	8.899	8.899	(1.051)	153337	1000.00	1000	
17	trans-1,2-Dichloroethene	96	4.210	4.210	(0.497)	154252	50.0000	50.0	
18	Allyl Chloride	41	3.838	3.838	(0.453)	145494	50.0000	50.0	
19	Methyl tert-butyl ether	73	4.388	4.389	(0.518)	889600	100.000	100	
20	Acetonitrile	39	4.796	4.796	(0.566)	32760	500.000	500	
21	Di-isopropyl ether	45	5.025	5.025	(0.593)	333475	50.0000	50.0	
22	Chloroprene	53	5.153	5.154	(0.608)	211739	50.0000	50.0	

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							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/kg)	(ug/kg)	REVIEW CODE
	23 Propionitrile	54	8.305	8.305	(0.981)	229541	500.000	500	
	24 Methacrylonitrile	41	8.334	8.335	(0.984)	724426	500.000	500	
	25 1,1-Dichloroethane	63	5.203	5.204	(0.614)	256707	50.0000	50.0	
	26 Acrylonitrile	52	5.332	5.332	(0.630)	212852	250.000	250	
	27 Ethyl tertiary-butyl ether	59	5.696	5.697	(0.673)	398479	50.0000	50.0	
	28 Vinyl Acetate	43	5.739	5.740	(0.606)	257014	50.0000	50.0	
	29 cis-1,2-Dichloroethene	96	6.254	6.254	(0.738)	188843	50.0000	50.0	
	31 Methyl Methacrylate	41	10.829	10.829	(1.143)	104389	50.0000	50.0	
	32 2,2-Dichloropropane	77	6.468	6.469	(0.764)	239961	50.0000	50.0	
	33 Bromochloromethane	128	6.683	6.683	(0.789)	91139	50.0000	50.0	
	34 Chloroform	83	6.912	6.912	(0.816)	281181	50.0000	50.0	
	35 Carbon Tetrachloride	117	7.140	7.141	(0.754)	215427	50.0000	50.0	
	36 Tetrahydrofuran	42	7.262	7.262	(0.857)	196267	250.000	250	
$	37 Dibromofluoromethane	113	7.340	7.341	(0.867)	136270	50.0000	50.0	
	38 1,1,1-Trichloroethane	97	7.319	7.320	(0.864)	269808	50.0000	50.0	
	39 1,1-Dichloropropene	75	7.619	7.620	(0.805)	217412	50.0000	50.0	
	40 2-Butanone	43	7.684	7.684	(0.907)	309308	250.000	250	
	41 Benzene	78	8.155	8.156	(0.861)	655732	50.0000	50.0	
*	42 Pentafluorobenzene	168	8.470	8.470	(1.000)	607035	50.0000		
	43 Cyclohexane	56	6.626	6.626	(0.782)	226467	50.0000	50.0	
	44 Ethyl Methacrylate	69	12.952	12.952	(1.368)	208295	50.0000	50.0	
$	45 1,2-Dichloroethane-D4	65	8.470	8.470	(1.000)	148255	50.0000	50.0	
	46 Tertiary-amyl methyl ether	73	8.506	8.506	(1.004)	408112	50.0000	50.0	
	47 1,2-Dichloroethane	62	8.606	8.606	(0.909)	200959	50.0000	50.0	
	48 Trichloroethene	95	9.349	9.350	(0.987)	176822	50.0000	50.0	
*	49 1,4-Difluorobenzene	114	9.471	9.471	(1.000)	877633	50.0000		
	50 Dibromomethane	93	10.114	10.114	(1.068)	93729	50.0000	50.0	
	51 1,2-Dichloropropane	63	10.300	10.300	(1.088)	136199	50.0000	50.0	
	52 Bromodichloromethane	83	10.457	10.457	(1.104)	221142	50.0000	50.0	
	53 cis-1,3-dichloropropene	75	11.543	11.544	(1.219)	281962	50.0000	50.0	
	54 1,4-Dioxane	88	10.843	10.843	(1.145)	63401	1000.00	1000	
$	55 Toluene-D8	98	11.829	11.830	(1.249)	583348	50.0000	50.0	
	56 2-Chloroethylvinylether	63	11.515	11.515	(1.216)	42257	50.0000	50.0	
	57 Toluene	92	11.915	11.916	(1.258)	489429	50.0000	50.0	
	58 4-methyl-2-pentanone	43	12.594	12.595	(1.330)	629814	250.000	250	
	59 Tetrachloroethene	164	12.501	12.502	(0.878)	187214	50.0000	50.0	
	60 trans-1,3-Dichloropropene	75	11.543	11.544	(1.219)	281962	50.0000	50.0	
	61 1,1,2-Trichloroethane	83	12.866	12.866	(1.358)	119372	50.0000	50.0	
	62 Dibromochloromethane	129	13.116	13.117	(0.921)	193154	50.0000	50.0	
	63 1,3-Dichloropropane	76	13.266	13.267	(0.932)	270064	50.0000	50.0	
	64 1,2-Dibromoethane	107	13.438	13.438	(1.419)	161023	50.0000	50.0	
	65 2-Hexanone	43	13.902	13.903	(0.976)	471410	250.000	250	
*	66 Chlorobenzene-D5	117	14.238	14.239	(1.000)	808211	50.0000		
	67 Chlorobenzene	112	14.267	14.267	(1.002)	592249	50.0000	50.0	
	152 1-Chlorohexane	91	14.288	14.289	(1.687)	266484	50.0000	50.0	
	68 Ethylbenzene	106	14.338	14.339	(1.007)	321995	50.0000	50.0	
	69 1,1,1,2-Tetrachloroethane	131	14.381	14.382	(1.010)	202177	50.0000	50.0	
	71 m+p-Xylenes	106	14.574	14.575	(1.024)	800007	100.000	100	
	72 o-Xylene	106	15.210	15.211	(1.068)	394375	50.0000	50.0	
	73 Styrene	104	15.296	15.297	(1.074)	622874	50.0000	50.0	
	74 Bromoform	173	15.303	15.304	(1.075)	134939	50.0000	50.0	
	75 Isopropylbenzene	105	15.689	15.690	(0.868)	1029174	50.0000	50.0	
$	76 P-Bromofluorobenzene	95	16.090	16.090	(1.699)	237009	50.0000	50.0	
	77 cis-1,4-Dichloro-2-Butene	53	16.240	16.239	(0.899)	66319	50.0000	50.0	

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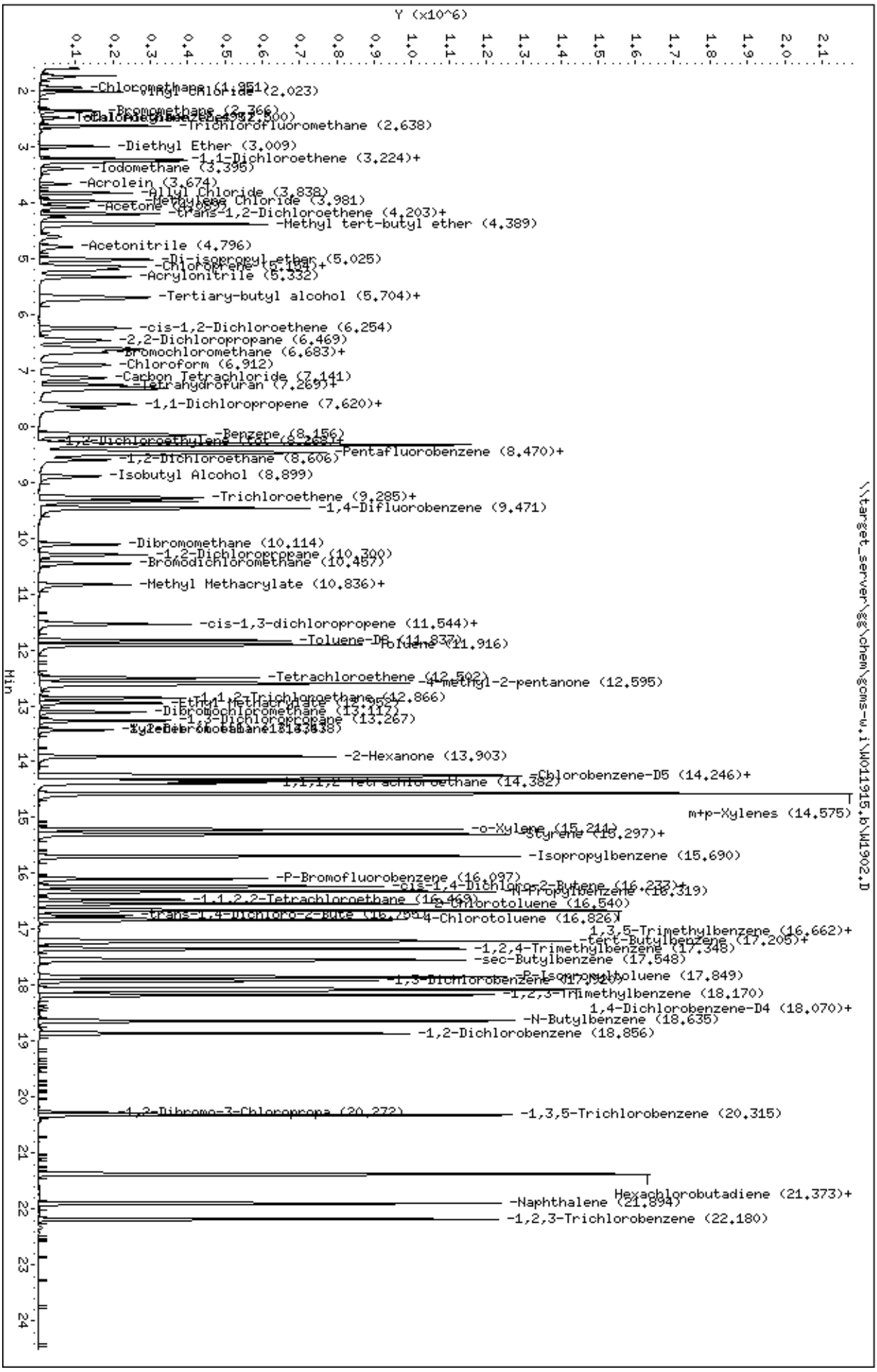
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	16.754	16.754	(0.927)	56139	50.0000	50.0	
79	Bromobenzene	156	16.225	16.226	(0.898)	269218	50.0000	50.0	
80	N-Propylbenzene	91	16.318	16.319	(0.903)	1145723	50.0000	50.0	
81	1,1,2,2-Tetrachloroethane	83	16.468	16.469	(0.911)	215116	50.0000	50.0	
82	1,3,5-Trimethylbenzene	105	16.661	16.662	(0.922)	898673	50.0000	50.0	
83	2-Chlorotoluene	91	16.540	16.540	(0.915)	712930	50.0000	50.0	
84	1,2,3-Trichloropropane	75	16.654	16.655	(0.922)	183597	50.0000	50.0	
85	4-Chlorotoluene	91	16.826	16.826	(0.931)	738653	50.0000	50.0	
86	tert-Butylbenzene	119	17.205	17.204	(0.952)	928138	50.0000	50.0	
87	Pentachloroethane	117	17.219	17.219	(0.953)	168485	50.0000	50.0	
88	1,2,4-Trimethylbenzene	105	17.348	17.347	(0.960)	903657	50.0000	50.0	
89	P-Isopropyltoluene	119	17.848	17.849	(0.988)	1054700	50.0000	50.0	
90	1,3-Dichlorobenzene	146	17.920	17.920	(0.992)	568242	50.0000	50.0	
* 91	1,4-Dichlorobenzene-D4	152	18.070	18.070	(1.000)	502207	50.0000		
92	1,4-Dichlorobenzene	146	18.091	18.092	(1.001)	554612	50.0000	50.0	
93	N-Butylbenzene	91	18.634	18.635	(1.031)	874465	50.0000	50.0	
94	sec-Butylbenzene	105	17.548	17.548	(0.971)	1197152	50.0000	50.0	
95	1,2-Dichlorobenzene	146	18.856	18.856	(1.044)	548910	50.0000	50.0	
96	1,2-Dibromo-3-Chloropropane	75	20.264	20.265	(1.121)	55656	50.0000	50.0	
97	1,3,5-Trichlorobenzene	180	20.314	20.315	(2.398)	520719	50.0000	50.0	
98	Hexachlorobutadiene	225	21.365	21.365	(1.182)	228130	50.0000	50.0	
99	1,2,4-Trichlorobenzene	180	21.379	21.380	(1.183)	451587	50.0000	50.0	
100	1,2,3-Trimethylbenzene	105	18.170	18.170	(2.145)	944956	50.0000	50.0	
101	Naphthalene	128	21.894	21.894	(1.212)	1113082	50.0000	50.0	
102	1,2,3-Trichlorobenzene	180	22.180	22.180	(1.227)	437122	50.0000	50.0	
103	Methyl Acetate	43	4.267	4.267	(0.504)	87477	50.0000	50.0	
104	Methylcyclohexane	83	9.278	9.278	(1.095)	310313	50.0000	50.0	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Client ID: Initial Calibration
Sample Info: WG157196-4
Column phase: RTX-VMS
Instrument: gcms-w.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-w.i\W011915.b\W1902.D
Y (x10^6)
Min
-Chloromethane (1.951)
-Vinyl Chloride (2.023)
-Bromomethane (2.366)
-Trichlorofluoromethane (2.638)
-Diethyl Ether (3.009)
-1,1-Dichloroethene (3.224)+
-Iodomethane (3.395)
-Acrolein (3.674)
-Allyl Chloride (3.838)
-Methylene Chloride (3.981)
-Acetone
-trans-1,2-Dichloroethene (4.203)+
-Methyl tert-butyl ether (4.389)
-Acetonitrile (4.796)
-Di-isopropyl ether (5.025)
-Chloroprene (5.194)+
-Acrylonitrile (5.332)
-Tertiary-butyl alcohol (5.704)+
-cis-1,2-Dichloroethene (6.254)
-2,2-Dichloropropane (6.469)
-Bromochloromethane (6.683)+
-Chloroform (6.912)
-Carbon Tetrachloride (7.141)
-Tetrahydrofuran (7.269)+
-1,1-Dichloropropene (7.620)+
-Benzene (8.156)
-Pentafluorobenzene (8.470)+
-1,2-Dichloroethane (8.606)
-Isobutyl Alcohol (8.899)
-Trichloroethene (9.285)+
-1,4-Difluorobenzene (9.471)
-Dibromomethane (10.114)
-1,2-Dichloropropane (10.300)
-Bromodichloromethane (10.457)
-Methyl Methacrylate (10.836)+
-cis-1,3-dichloropropene (11.544)+
-Toluene-D8 (11.837)
-Toluene (11.916)
-Tetrachloroethene (12.502)
-4-methyl-2-pentanone (12.595)
-1,1,2-Trichloroethane (12.866)
-Ethyl Methacrylate (13.062)
-Dibromochloromethane (13.112)
-1,3-Dichloropropane (13.267)
-2-Hexanone (13.903)
-Chlorobenzene-D5 (14.246)+
1,1,1,2-Tetrachloroethane (14.382)
m+p-Xylenes (14.575)
-o-Xylene (15.241)
-Styrene (15.297)+
-Isopropylbenzene (15.690)
-P-Bromofluorobenzene (16.097)
-n-Propylbenzene (16.319)
-2-Chlorotoluene (16.540)
-4-Chlorotoluene (16.826)
-1,3,5-Trimethylbenzene (16.662)+
-tert-Butylbenzene (17.205)+
-1,2,4-Trimethylbenzene (17.348)
-sec-Butylbenzene (17.548)
-1,3-Dichlorobenzene (17.732)
-1,2,3-Trimethylbenzene (18.170)
-1,4-Dichlorobenzene-D4 (18.070)+
-N-Butylbenzene (18.635)
-1,2-Dichlorobenzene (18.856)
-1,2-Dibromo-3-Chloropropa (20.272)
-1,3,5-Trichlorobenzene (20.315)
Hexachlorobutadiene (21.373)+
-Naphthalene (21.894)
-1,2,3-Trichlorobenzene (22.180)

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1903.D
Report Date: 20-Jan-2015 08:15

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1903.D
Lab Smp Id: WG157196-6 Client Smp ID: Initial Calibration
Inj Date : 19-JAN-2015 11:19
Operator : REC Inst ID: gcms-w.i
Smp Info : WG157196-6
Misc Info :
Comment : SW846 5035
Method : \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 11:19 Cal File: W1903.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.000	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.737	1.737	(0.205)	875821	200.000	215(AM)	M9
2	Chloromethane	50	1.959	1.951	(0.231)	728859	200.000	195	
3	Vinyl chloride	62	2.023	2.023	(0.239)	770683	200.000	210(A)	
4	Bromomethane	94	2.366	2.366	(0.279)	312676	200.000	173	
5	Chloroethane	64	2.488	2.495	(0.293)	229764	200.000	196	
6	Trichlorofluoromethane	101	2.623	2.638	(0.309)	290261	200.000	66.3	
7	Diethyl Ether	59	3.017	3.009	(0.356)	381781	200.000	189	
8	Tertiary-butyl alcohol	59	5.711	5.697	(0.674)	1687199	1000.00	980	
9	1,1-Dichloroethene	96	3.217	3.224	(0.379)	527515	200.000	199	
10	Carbon Disulfide	76	3.245	3.252	(0.383)	1352777	200.000	194	
11	Freon-113	151	3.267	3.274	(0.385)	440002	200.000	193	
12	Iodomethane	142	3.395	3.402	(0.401)	624958	200.000	214(A)	
13	Acrolein	56	3.681	3.674	(0.434)	329431	1000.00	947	
14	Methylene Chloride	84	3.982	3.989	(0.470)	604663	200.000	180	
15	Acetone	43	4.103	4.089	(0.484)	860928	1000.00	1020(A)	
16	Isobutyl Alcohol	43	8.985	8.899	(1.060)	822574	4000.00	4820(A)	
17	trans-1,2-Dichloroethene	96	4.203	4.210	(0.496)	583167	200.000	191	
18	Allyl Chloride	41	3.831	3.838	(0.452)	548477	200.000	184	
19	Methyl tert-butyl ether	73	4.403	4.389	(0.519)	3548625	400.000	381(A)	
20	Acetonitrile	39	4.818	4.796	(0.568)	154484	2000.00	2060(A)	
21	Di-isopropyl ether	45	5.032	5.025	(0.594)	1374954	200.000	189	
22	Chloroprene	53	5.154	5.154	(0.608)	833568	200.000	192	

REC
10:21 am, Jan 20, 2015

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1903.D
Report Date: 20-Jan-2015 08:15

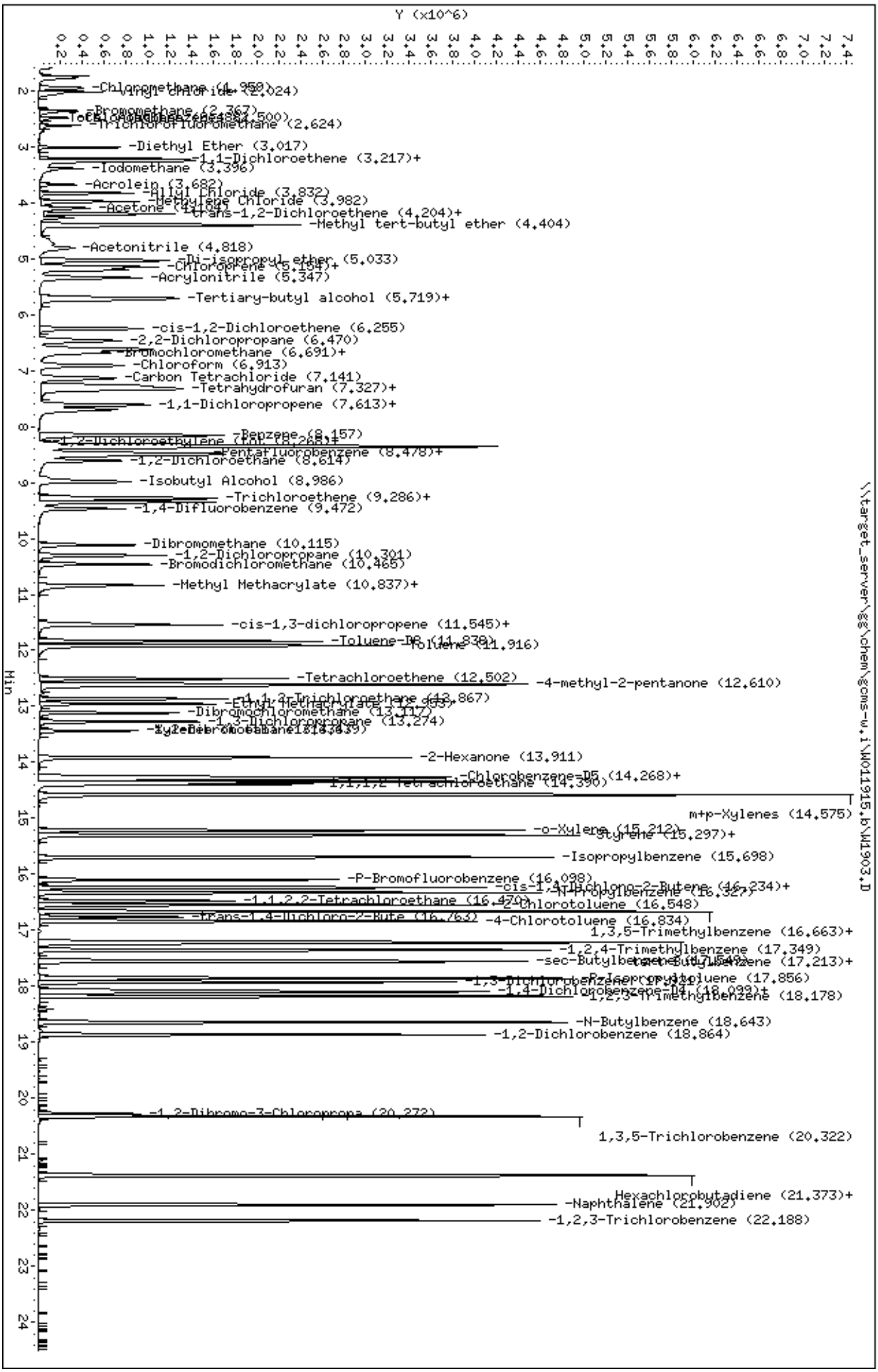
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
	23 Propionitrile	54	8.342	8.305	(0.984)	985583	2000.00	1970	
	24 Methacrylonitrile	41	8.363	8.335	(0.987)	2891029	2000.00	1890	
	25 1,1-Dichloroethane	63	5.204	5.204	(0.614)	998577	200.000	193	
	26 Acrylonitrile	52	5.347	5.332	(0.631)	931253	1000.00	997	
	27 Ethyl tertiary-butyl ether	59	5.711	5.697	(0.674)	1687199	200.000	196	
	28 Vinyl Acetate	43	5.740	5.740	(0.606)	1131094	200.000	198	
	29 cis-1,2-Dichloroethene	96	6.255	6.254	(0.738)	749519	200.000	195	
	31 Methyl Methacrylate	41	10.837	10.829	(1.144)	518665	200.000	216(A)	
	32 2,2-Dichloropropane	77	6.469	6.469	(0.763)	958418	200.000	205(A)	
	33 Bromochloromethane	128	6.691	6.683	(0.789)	375041	200.000	200(A)	
	34 Chloroform	83	6.912	6.912	(0.815)	1113405	200.000	198	
	35 Carbon Tetrachloride	117	7.141	7.141	(0.754)	858227	200.000	204(A)	
	36 Tetrahydrofuran	42	7.270	7.262	(0.858)	905823	1000.00	1050(A)	
$	37 Dibromofluoromethane	113	7.348	7.341	(0.867)	551168	200.000	202(A)	
	38 1,1,1-Trichloroethane	97	7.320	7.320	(0.863)	1041201	200.000	201(A)	
	39 1,1-Dichloropropene	75	7.613	7.620	(0.804)	860767	200.000	192	
	40 2-Butanone	43	7.699	7.684	(0.908)	1465531	1000.00	1070(A)	
	41 Benzene	78	8.156	8.156	(0.861)	2550569	200.000	185	
*	42 Pentafluorobenzene	168	8.478	8.470	(1.000)	630261	50.0000		
	43 Cyclohexane	56	6.626	6.626	(0.782)	881324	200.000	200(A)	
	44 Ethyl Methacrylate	69	12.952	12.952	(1.368)	997543	200.000	210(A)	
$	45 1,2-Dichloroethane-D4	65	8.478	8.470	(1.000)	588958	200.000	202(A)	
	46 Tertiary-amyl methyl ether	73	8.513	8.506	(1.004)	1789751	200.000	203(A)	
	47 1,2-Dichloroethane	62	8.613	8.606	(0.909)	818045	200.000	196	
	48 Trichloroethene	95	9.350	9.350	(0.987)	687440	200.000	190	
*	49 1,4-Difluorobenzene	114	9.471	9.471	(1.000)	947354	50.0000		
	50 Dibromomethane	93	10.115	10.114	(1.068)	398713	200.000	202(A)	
	51 1,2-Dichloropropane	63	10.300	10.300	(1.088)	573240	200.000	195	
	52 Bromodichloromethane	83	10.465	10.457	(1.105)	921608	200.000	202(A)	
	53 cis-1,3-dichloropropene	75	11.544	11.544	(1.219)	1195769	200.000	199	
	54 1,4-Dioxane	88	10.872	10.843	(1.148)	311805	4000.00	4240(A)	
$	55 Toluene-D8	98	11.837	11.830	(1.250)	2265055	200.000	187	
	56 2-Chloroethylvinylether	63	11.516	11.515	(1.216)	238915	200.000	237(A)	
	57 Toluene	92	11.916	11.916	(1.258)	1869029	200.000	185	
	58 4-methyl-2-pentanone	43	12.609	12.595	(1.331)	2714858	1000.00	990	
	59 Tetrachloroethene	164	12.502	12.502	(0.878)	729953	200.000	189	
	60 trans-1,3-Dichloropropene	75	11.544	11.544	(1.219)	1195769	200.000	199	
	61 1,1,2-Trichloroethane	83	12.867	12.866	(1.358)	511061	200.000	200	
	62 Dibromochloromethane	129	13.117	13.117	(0.921)	847075	200.000	207(A)	
	63 1,3-Dichloropropane	76	13.274	13.267	(0.932)	1137236	200.000	196	
	64 1,2-Dibromoethane	107	13.438	13.438	(1.419)	716870	200.000	206(A)	
	65 2-Hexanone	43	13.910	13.903	(0.976)	2197040	1000.00	1030(A)	
*	66 Chlorobenzene-D5	117	14.246	14.239	(1.000)	881303	50.0000		
	67 Chlorobenzene	112	14.268	14.267	(1.002)	2235412	200.000	182	
	152 1-Chlorohexane	91	14.296	14.289	(1.686)	1096204	200.000	208(A)	
	68 Ethylbenzene	106	14.346	14.339	(1.007)	1228353	200.000	185	
	69 1,1,1,2-Tetrachloroethane	131	14.389	14.382	(1.010)	841124	200.000	199	
	71 m+p-Xylenes	106	14.575	14.575	(1.023)	2794344	400.000	346	
	72 o-Xylene	106	15.211	15.211	(1.068)	1552133	200.000	188	
	73 Styrene	104	15.297	15.297	(1.074)	2418712	200.000	186(A)	
	74 Bromoform	173	15.311	15.304	(1.075)	639674	200.000	217(A)	
	75 Isopropylbenzene	105	15.697	15.690	(0.869)	3762720	200.000	170	
$	76 P-Bromofluorobenzene	95	16.097	16.090	(1.700)	1040502	200.000	206(A)	
	77 cis-1,4-Dichloro-2-Butene	53	16.240	16.239	(0.899)	345461	200.000	214(A)	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1903.D
Report Date: 20-Jan-2015 08:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	16.762	16.754	(0.928)	291373	200.000	215(A)	
79	Bromobenzene	156	16.233	16.226	(0.898)	1117971	200.000	184	
80	N-Propylbenzene	91	16.326	16.319	(0.903)	4178316	200.000	169	
81	1,1,2,2-Tetrachloroethane	83	16.469	16.469	(0.911)	1025565	200.000	199	
82	1,3,5-Trimethylbenzene	105	16.669	16.662	(0.922)	3429840	200.000	175	
83	2-Chlorotoluene	91	16.548	16.540	(0.916)	2856248	200.000	180	
84	1,2,3-Trichloropropane	75	16.662	16.655	(0.922)	823947	200.000	193	
85	4-Chlorotoluene	91	16.834	16.826	(0.932)	2970995	200.000	181	
86	tert-Butylbenzene	119	17.213	17.204	(0.953)	3653467	200.000	180	
87	Pentachloroethane	117	17.227	17.219	(0.953)	759787	200.000	195	
88	1,2,4-Trimethylbenzene	105	17.348	17.347	(0.960)	3579944	200.000	179	
89	P-Isopropyltoluene	119	17.856	17.849	(0.988)	4033830	200.000	178	
90	1,3-Dichlorobenzene	146	17.920	17.920	(0.992)	2323306	200.000	182	
* 91	1,4-Dichlorobenzene-D4	152	18.070	18.070	(1.000)	594706	50.0000		
92	1,4-Dichlorobenzene	146	18.099	18.092	(1.002)	2262558	200.000	182	
93	N-Butylbenzene	91	18.642	18.635	(1.032)	3348690	200.000	177	
94	sec-Butylbenzene	105	17.548	17.548	(0.971)	4558961	200.000	177	
95	1,2-Dichlorobenzene	146	18.864	18.856	(1.044)	2273220	200.000	184	
96	1,2-Dibromo-3-Chloropropane	75	20.272	20.265	(1.122)	261233	200.000	205(A)	
97	1,3,5-Trichlorobenzene	180	20.322	20.315	(2.397)	1964470	200.000	190	
98	Hexachlorobutadiene	225	21.366	21.365	(1.182)	875632	200.000	181(A)	
99	1,2,4-Trichlorobenzene	180	21.387	21.380	(1.184)	1712610	200.000	174	
100	1,2,3-Trimethylbenzene	105	18.178	18.170	(2.144)	3730032	200.000	196	
101	Naphthalene	128	21.902	21.894	(1.212)	4078965	200.000	166	
102	1,2,3-Trichlorobenzene	180	22.188	22.180	(1.228)	1666228	200.000	173	
103	Methyl Acetate	43	4.275	4.267	(0.504)	399325	200.000	214(A)	
104	Methylcyclohexane	83	9.285	9.278	(1.095)	1206030	200.000	198	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.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Date : 19-JAN-2015 11:19
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Sample Info: WG157196-6
Column phase: RTX-VMS
Instrument: gcms-w,i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-w,i\W011915,b\W1903.D
Y (x10^6)
Min
-Chloromethane (1.958)
-Vinyl chloride (2.024)
-Bromomethane (2.367)
-Trichlorofluoromethane (2.624)
-Diethyl Ether (3.017)
-1,1-Dichloroethene (3.217)+
-Iodomethane (3.396)
-Acrolein (3.682)
-Allyl Chloride (3.832)
-Methylene Chloride (3.982)
-Acetone (4.041)
-trans-1,2-Dichloroethene (4.204)+
-Methyl tert-butyl ether (4.404)
-Acetonitrile (4.818)
-Di-isopropyl ether (5.033)
-Chloroprene (5.154)+
-Acrylonitrile (5.347)
-Tertiary-butyl alcohol (5.719)+
-cis-1,2-Dichloroethene (6.255)
-2,2-Dichloropropane (6.470)
-Bromochloromethane (6.691)+
-Chloroform (6.913)
-Carbon Tetrachloride (7.141)
-Tetrahydrofuran (7.327)+
-1,1-Dichloropropene (7.613)+
-Benzene (8.157)
-Pentafluorobenzene (8.478)+
-1,2-Dichloroethane (8.614)
-Isobutyl Alcohol (8.986)
-Trichloroethene (9.286)+
-1,4-Difluorobenzene (9.472)
-Dibromomethane (10.115)
-1,2-Dichloropropane (10.301)
-Bromodichloromethane (10.465)
-Methyl Methacrylate (10.837)+
-cis-1,3-dichloropropene (11.545)+
-Toluene-D8 (11.838)
-Toluene (11.916)
-Tetrachloroethene (12.502)
-4-methyl-2-pentanone (12.610)
-Dibromochloromethane (13.117)
-1,3-Dichloropropane (13.274)
-2-Hexanone (13.911)
-Chlorobenzene-D5 (14.268)+
m+p-Xylenes (14.575)
-o-Xylene (15.212)
-Isopropylbenzene (15.698)
-P-Bromofluorobenzene (16.098)
-1,1,2,2-Tetrachloroethane (16.470)
-2-Chlorotoluene (16.548)
-4-Chlorotoluene (16.834)
1,3,5-Trimethylbenzene (16.663)+
-1,2,4-Trimethylbenzene (17.349)
-1,3-Dichlorobenzene (17.621)
-1,4-Dichlorobenzene-D4 (18.093)+
-N-Butylbenzene (18.643)
-1,2-Dichlorobenzene (18.864)
-1,2-Dibromo-3-Chloropropa (20.272)
1,3,5-Trichlorobenzene (20.322)
Hexachlorobutadiene (21.373)+
-Naphthalene (21.902)
-1,2,3-Trichlorobenzene (22.188)

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1904.D
Report Date: 20-Jan-2015 08:15

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1904.D
Lab Smp Id: WG157196-5 Client Smp ID: Initial Calibration
Inj Date : 19-JAN-2015 11:51
Operator : REC Inst ID: gcms-w.i
Smp Info : WG157196-5
Misc Info :
Comment : SW846 5035
Method : \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 11:51 Cal File: W1904.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.000	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.742	1.737	(0.206)	421561	100.000	93.3	
2	Chloromethane	50	1.950	1.951	(0.230)	400398	100.000	96.6	
3	Vinyl chloride	62	2.028	2.023	(0.239)	393001	100.000	96.8	
4	Bromomethane	94	2.364	2.366	(0.279)	194274	100.000	97.1	
5	Chloroethane	64	2.493	2.495	(0.294)	120394	100.000	92.7	
6	Trichlorofluoromethane	101	2.629	2.638	(0.310)	439103	100.000	90.5	
7	Diethyl Ether	59	3.008	3.009	(0.355)	224749	100.000	100	
8	Tertiary-butyl alcohol	59	5.702	5.697	(0.673)	989768	500.000	519	
9	1,1-Dichloroethene	96	3.222	3.224	(0.380)	287860	100.000	97.8	
10	Carbon Disulfide	76	3.251	3.252	(0.384)	763465	100.000	98.5	
11	Freon-113	151	3.272	3.274	(0.386)	252187	100.000	99.7	
12	Iodomethane	142	3.401	3.402	(0.401)	328960	100.000	101	
13	Acrolein	56	3.672	3.674	(0.433)	204177	500.000	530	
14	Methylene Chloride	84	3.987	3.989	(0.470)	343997	100.000	92.6	
15	Acetone	43	4.094	4.089	(0.483)	470069	500.000	501	
16	Isobutyl Alcohol	43	8.919	8.899	(1.052)	443040	2000.00	2340	
17	trans-1,2-Dichloroethene	96	4.208	4.210	(0.497)	331742	100.000	98.1	
18	Allyl Chloride	41	3.837	3.838	(0.453)	339871	100.000	103	
19	Methyl tert-butyl ether	73	4.394	4.389	(0.518)	2093016	200.000	203(A)	
20	Acetonitrile	39	4.809	4.796	(0.567)	88982	1000.00	1070	
21	Di-isopropyl ether	45	5.030	5.025	(0.594)	844190	100.000	105	
22	Chloroprene	53	5.152	5.154	(0.608)	501613	100.000	104	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1904.D
Report Date: 20-Jan-2015 08:15

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
	23	Propionitrile	54	8.319	8.305	(0.981)	582478	1000.00	1050	
	24	Methacrylonitrile	41	8.347	8.335	(0.985)	1718391	1000.00	1010	
	25	1,1-Dichloroethane	63	5.202	5.204	(0.614)	567411	100.000	98.8	
	26	Acrylonitrile	52	5.338	5.332	(0.630)	533012	500.000	515	
	27	Ethyl tertiary-butyl ether	59	5.702	5.697	(0.673)	989768	100.000	104	
	28	Vinyl Acetate	43	5.738	5.740	(0.606)	626782	100.000	104	
	29	cis-1,2-Dichloroethene	96	6.253	6.254	(0.738)	423839	100.000	99.5	
	31	Methyl Methacrylate	41	10.835	10.829	(1.144)	272386	100.000	108	
	32	2,2-Dichloropropane	77	6.474	6.469	(0.764)	513720	100.000	99.1	
	33	Bromochloromethane	128	6.689	6.683	(0.789)	202680	100.000	97.6	
	34	Chloroform	83	6.910	6.912	(0.815)	617455	100.000	99.0	
	35	Carbon Tetrachloride	117	7.139	7.141	(0.754)	444985	100.000	100	
	36	Tetrahydrofuran	42	7.268	7.262	(0.857)	488233	500.000	512	
$	37	Dibromofluoromethane	113	7.346	7.341	(0.867)	291460	100.000	96.2	
	38	1,1,1-Trichloroethane	97	7.325	7.320	(0.864)	560234	100.000	97.7	
	39	1,1-Dichloropropene	75	7.618	7.620	(0.804)	481014	100.000	102	
	40	2-Butanone	43	7.690	7.684	(0.907)	788622	500.000	520	
	41	Benzene	78	8.161	8.156	(0.862)	1456284	100.000	100	
*	42	Pentafluorobenzene	168	8.476	8.470	(1.000)	698577	50.0000		
	43	Cyclohexane	56	6.624	6.626	(0.782)	487000	100.000	100	
	44	Ethyl Methacrylate	69	12.950	12.952	(1.368)	530705	100.000	106	
$	45	1,2-Dichloroethane-D4	65	8.469	8.470	(0.999)	304219	100.000	94.4	
	46	Tertiary-amyl methyl ether	73	8.504	8.506	(1.003)	1024915	100.000	105	
	47	1,2-Dichloroethane	62	8.604	8.606	(0.909)	432802	100.000	98.7	
	48	Trichloroethene	95	9.348	9.350	(0.987)	383563	100.000	100	
*	49	1,4-Difluorobenzene	114	9.469	9.471	(1.000)	997545	50.0000		
	50	Dibromomethane	93	10.113	10.114	(1.068)	207247	100.000	99.8	
	51	1,2-Dichloropropane	63	10.306	10.300	(1.088)	315390	100.000	102	
	52	Bromodichloromethane	83	10.463	10.457	(1.105)	480502	100.000	100	
	53	cis-1,3-dichloropropene	75	11.549	11.544	(1.220)	643274	100.000	102	
	54	1,4-Dioxane	88	10.849	10.843	(1.146)	170376	2000.00	2200	
$	55	Toluene-D8	98	11.835	11.830	(1.250)	1264468	100.000	99.4	
	56	2-Chloroethylvinylether	63	11.514	11.515	(1.216)	112986	100.000	106	
	57	Toluene	92	11.914	11.916	(1.258)	1060397	100.000	99.7	
	58	4-methyl-2-pentanone	43	12.600	12.595	(1.331)	1480231	500.000	513	
	59	Tetrachloroethene	164	12.500	12.502	(0.878)	408571	100.000	102	
	60	trans-1,3-Dichloropropene	75	11.549	11.544	(1.220)	643274	100.000	102	
	61	1,1,2-Trichloroethane	83	12.865	12.866	(1.359)	267282	100.000	99.3	
	62	Dibromochloromethane	129	13.115	13.117	(0.921)	425530	100.000	100	
	63	1,3-Dichloropropane	76	13.272	13.267	(0.932)	607353	100.000	100	
	64	1,2-Dibromoethane	107	13.437	13.438	(1.419)	371360	100.000	101	
	65	2-Hexanone	43	13.908	13.903	(0.976)	1153234	500.000	521	
*	66	Chlorobenzene-D5	117	14.244	14.239	(1.000)	916179	50.0000		
	67	Chlorobenzene	112	14.266	14.267	(1.002)	1257707	100.000	98.5	
	152	1-Chlorohexane	91	14.294	14.289	(1.686)	596371	100.000	102	
	68	Ethylbenzene	106	14.344	14.339	(1.007)	688105	100.000	99.5	
	69	1,1,1,2-Tetrachloroethane	131	14.387	14.382	(1.010)	437898	100.000	99.5	
	71	m+p-Xylenes	106	14.573	14.575	(1.023)	1654874	200.000	197	
	72	o-Xylene	106	15.209	15.211	(1.068)	859796	100.000	100	
	73	Styrene	104	15.295	15.297	(1.074)	1352843	100.000	100	
	74	Bromoform	173	15.302	15.304	(1.074)	308503	100.000	101	
	75	Isopropylbenzene	105	15.695	15.690	(0.869)	2144948	100.000	98.4	
$	76	P-Bromofluorobenzene	95	16.096	16.090	(1.700)	520796	100.000	98.0	
	77	cis-1,4-Dichloro-2-Butene	53	16.239	16.239	(0.899)	163375	100.000	103	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1904.D
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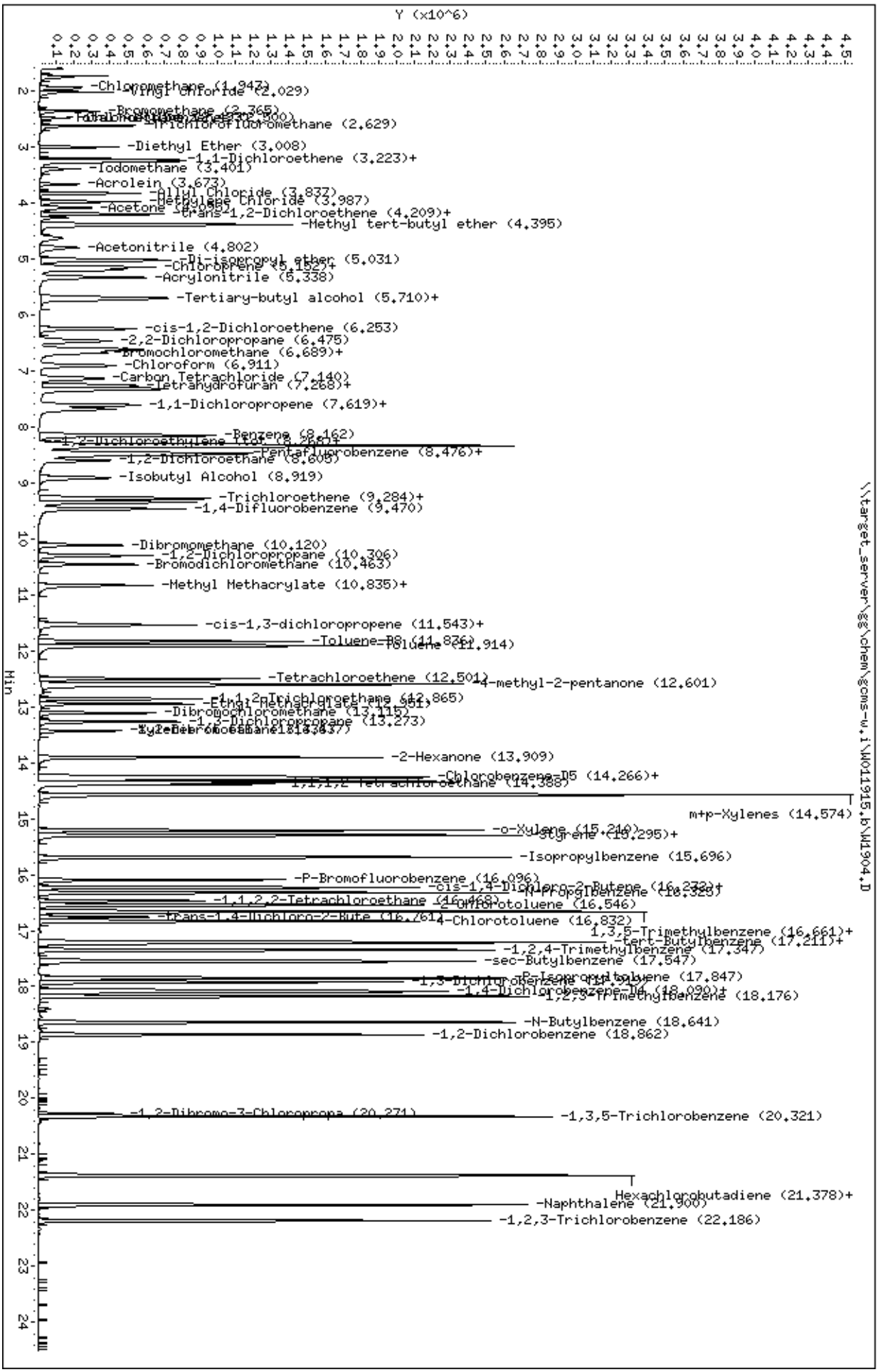
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	16.753	16.754	(0.927)	138336	100.000	104	
79	Bromobenzene	156	16.231	16.226	(0.898)	583380	100.000	97.5	
80	N-Propylbenzene	91	16.324	16.319	(0.903)	2393357	100.000	98.5	
81	1,1,2,2-Tetrachloroethane	83	16.467	16.469	(0.911)	515453	100.000	101	
82	1,3,5-Trimethylbenzene	105	16.667	16.662	(0.922)	1911728	100.000	98.9	
83	2-Chlorotoluene	91	16.546	16.540	(0.916)	1539304	100.000	98.5	
84	1,2,3-Trichloropropane	75	16.660	16.655	(0.922)	418593	100.000	99.6	
85	4-Chlorotoluene	91	16.832	16.826	(0.932)	1592646	100.000	98.4	
86	tert-Butylbenzene	119	17.211	17.204	(0.953)	1995409	100.000	99.6	
87	Pentachloroethane	117	17.218	17.219	(0.953)	392893	100.000	102	
88	1,2,4-Trimethylbenzene	105	17.346	17.347	(0.960)	1957271	100.000	99.2	
89	P-Isopropyltoluene	119	17.847	17.849	(0.988)	2242380	100.000	100	
90	1,3-Dichlorobenzene	146	17.918	17.920	(0.992)	1241000	100.000	99.0	
* 91	1,4-Dichlorobenzene-D4	152	18.068	18.070	(1.000)	585845	50.0000		
92	1,4-Dichlorobenzene	146	18.097	18.092	(1.002)	1217123	100.000	99.6	
93	N-Butylbenzene	91	18.640	18.635	(1.032)	1865610	100.000	100	
94	sec-Butylbenzene	105	17.547	17.548	(0.971)	2531113	100.000	99.6	
95	1,2-Dichlorobenzene	146	18.862	18.856	(1.044)	1218256	100.000	100	
96	1,2-Dibromo-3-Chloropropane	75	20.270	20.265	(1.122)	128088	100.000	102	
97	1,3,5-Trichlorobenzene	180	20.320	20.315	(2.397)	1154336	100.000	101	
98	Hexachlorobutadiene	225	21.364	21.365	(1.182)	466761	100.000	97.9	
99	1,2,4-Trichlorobenzene	180	21.385	21.380	(1.184)	952633	100.000	98.0	
100	1,2,3-Trimethylbenzene	105	18.176	18.170	(2.144)	2124823	100.000	101	
101	Naphthalene	128	21.900	21.894	(1.212)	2385570	100.000	98.4	
102	1,2,3-Trichlorobenzene	180	22.186	22.180	(1.228)	917006	100.000	96.8	
103	Methyl Acetate	43	4.266	4.267	(0.503)	204316	100.000	98.9	
104	Methylcyclohexane	83	9.284	9.278	(1.095)	702924	100.000	104	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1904.D
Date : 19-JAN-2015 11:51
Client ID: Initial Calibration
Sample Info: WG157196-5
Column phase: RTX-VMS
Instrument: gcms-w.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-w.i\W011915.b\W1904.D
Y (x10^6)
Min
-Chloromethane (1.947)
-Vinyl chloride (2.029)
-Bromomethane (2.365)
-Trichlorofluoromethane (2.629)
-Diethyl Ether (3.008)
-1,1-Dichloroethene (3.223)+
-Iodomethane (3.401)
-Acrolein (3.673)
-Allyl Chloride (3.837)
-Methylene Chloride (3.987)
-Acetone (4.090)
-trans-1,2-Dichloroethene (4.209)+
-Methyl tert-butyl ether (4.395)
-Acetonitrile (4.802)
-Di-isopropyl ether (5.031)
-Chloroprene (5.152)+
-Acrylonitrile (5.338)
-Tertiary-butyl alcohol (5.710)+
-cis-1,2-Dichloroethene (6.253)
-2,2-Dichloropropane (6.475)
-Bromochloromethane (6.689)+
-Chloroform (6.911)
-Carbon Tetrachloride (7.140)
-Tetrahydrofuran (7.268)+
-1,1-Dichloropropene (7.619)+
-Benzene (8.162)
-Pentafluorobenzene (8.476)+
-1,2-Dichloroethane (8.605)
-Isobutyl Alcohol (8.919)
-Trichloroethene (9.284)+
-1,4-Difluorobenzene (9.470)
-Dibromomethane (10.120)
-1,2-Dichloropropane (10.306)
-Bromodichloromethane (10.463)
-Methyl Methacrylate (10.835)+
-cis-1,3-dichloropropene (11.543)+
-Toluene-D8 (11.876)
Toluene (11.914)
-Tetrachloroethene (12.501)
4-methyl-2-pentanone (12.601)
-Ethyl Methacrylate (12.861)
-Dibromochloromethane (13.115)
-1,3-Dichloropropane (13.273)
-2-Hexanone (13.909)
-Chlorobenzene-D5 (14.266)+
1,1,1,2-Tetrachloroethane (14.388)
m+p-Xylenes (14.574)
-o-Xylene (15.210)
-Styrene (15.295)+
-Isopropylbenzene (15.696)
-P-Bromofluorobenzene (16.096)
-cis-1,4-Dichloro-2-Butene (16.232)+
-N-Propylbenzene (16.325)
-1,1,2,2-Tetrachloroethane (16.468)
-2-Chlorotoluene (16.546)
-trans-1,4-Dichloro-2-Bute (16.761)
4-Chlorotoluene (16.832)
1,3,5-Trimethylbenzene (16.661)+
-tert-Butylbenzene (17.211)+
-1,2,4-Trimethylbenzene (17.347)
-sec-Butylbenzene (17.547)
-P-Isopropyltoluene (17.847)
-1,3-Dichlorobenzene (17.911)
-1,4-Dichlorobenzene-D4 (18.090)+
1,2,3-Trimethylbenzene (18.176)
-N-Butylbenzene (18.641)
-1,2-Dichlorobenzene (18.862)
-1,2-Dibromo-3-Chloropropa (20.271)
-1,3,5-Trichlorobenzene (20.321)
Hexachlorobutadiene (21.378)+
-Naphthalene (21.900)
-1,2,3-Trichlorobenzene (22.186)

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1905.D
Report Date: 20-Jan-2015 08:15

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1905.D
Lab Smp Id: WG157196-3 Client Smp ID: Initial Calibration
Inj Date : 19-JAN-2015 12:24
Operator : REC Inst ID: gcms-w.i
Smp Info : WG157196-3
Misc Info :
Comment : SW846 5035
Method : \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 12:24 Cal File: W1905.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.000	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.737	1.737	(0.205)	77087	20.0000	16.3	
2	Chloromethane	50	1.945	1.951	(0.230)	86250	20.0000	19.9	
3	Vinyl chloride	62	2.023	2.023	(0.239)	77050	20.0000	18.2	
4	Bromomethane	94	2.366	2.366	(0.279)	46314	20.0000	22.2	
5	Chloroethane	64	2.495	2.495	(0.295)	25760	20.0000	19.0	
6	Trichlorofluoromethane	101	2.645	2.638	(0.312)	92215	20.0000	18.2	
7	Diethyl Ether	59	3.002	3.009	(0.354)	49523	20.0000	21.2	
8	Tertiary-butyl alcohol	59	5.697	5.697	(0.673)	203156	100.000	102	
9	1,1-Dichloroethene	96	3.231	3.224	(0.381)	57255	20.0000	18.6	
10	Carbon Disulfide	76	3.253	3.252	(0.384)	154953	20.0000	19.2	
11	Freon-113	151	3.274	3.274	(0.387)	48741	20.0000	18.4	
12	Iodomethane	142	3.403	3.402	(0.402)	57124	20.0000	16.9	
13	Acrolein	56	3.667	3.674	(0.433)	42756	100.000	106	
14	Methylene Chloride	84	3.989	3.989	(0.471)	91189	20.0000	23.5(a)	
15	Acetone	43	4.089	4.089	(0.483)	96297	100.000	98.3	
16	Isobutyl Alcohol	43	8.900	8.899	(1.051)	67940	500.000	344	
17	trans-1,2-Dichloroethene	96	4.210	4.210	(0.497)	71467	20.0000	20.2	
18	Allyl Chloride	41	3.839	3.838	(0.453)	71677	20.0000	20.8	
19	Methyl tert-butyl ether	73	4.389	4.389	(0.518)	449928	40.0000	41.7	
20	Acetonitrile	39	4.797	4.796	(0.566)	17337	200.000	199	
21	Di-isopropyl ether	45	5.025	5.025	(0.593)	177738	20.0000	21.1	
22	Chloroprene	53	5.154	5.154	(0.608)	98401	20.0000	19.6	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1905.D
Report Date: 20-Jan-2015 08:15

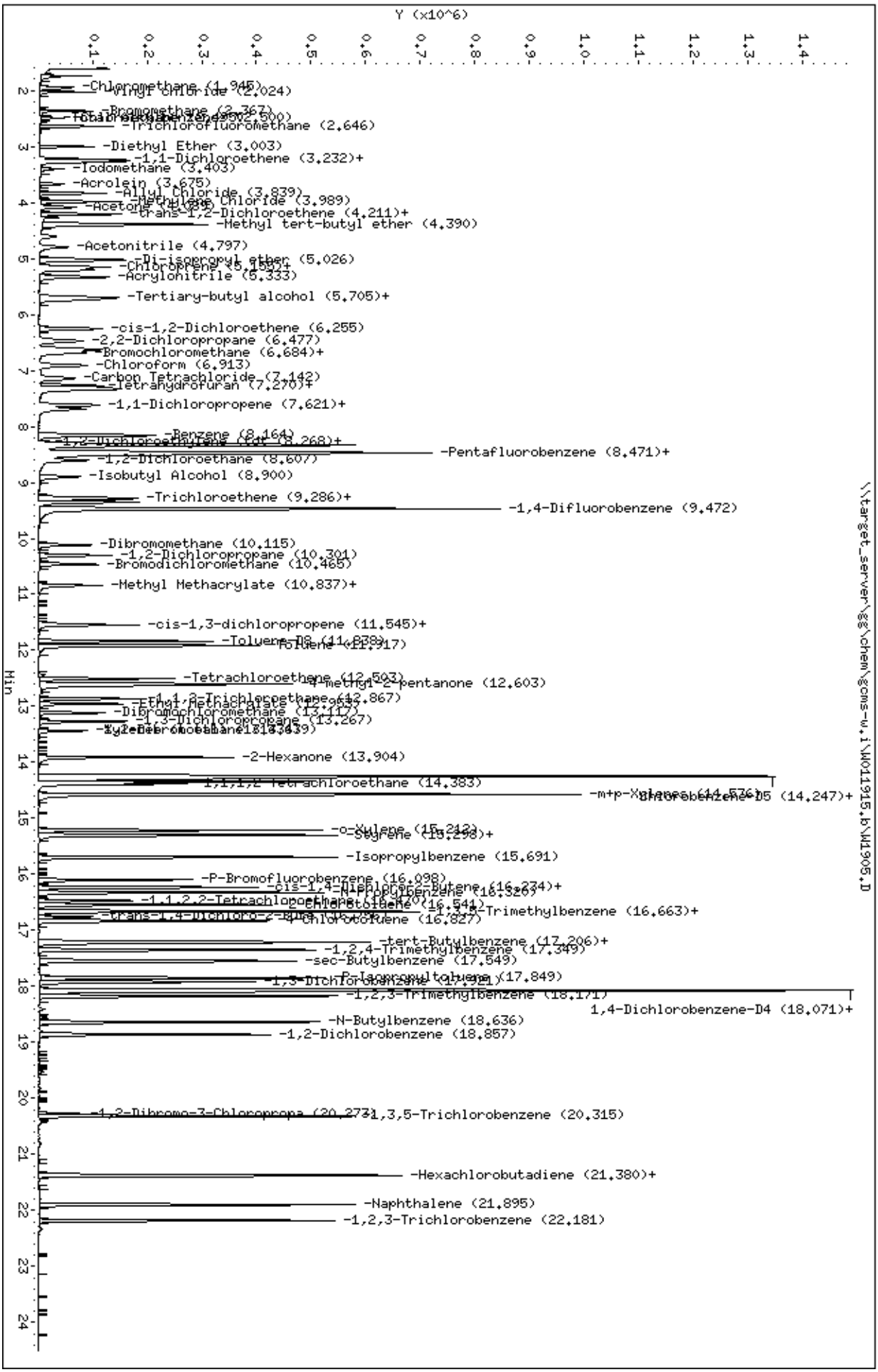
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
	23 Propionitrile	54	8.299	8.305	(0.980)	117742	200.000	203	
	24 Methacrylonitrile	41	8.328	8.335	(0.983)	372626	200.000	211	
	25 1,1-Dichloroethane	63	5.204	5.204	(0.614)	122506	20.0000	20.4	
	26 Acrylonitrile	52	5.333	5.332	(0.630)	110878	100.000	102	
	27 Ethyl tertiary-butyl ether	59	5.697	5.697	(0.673)	203156	20.0000	20.4	
	28 Vinyl Acetate	43	5.733	5.740	(0.605)	126351	20.0000	20.0	
	29 cis-1,2-Dichloroethene	96	6.255	6.254	(0.738)	89847	20.0000	20.2	
	31 Methyl Methacrylate	41	10.837	10.829	(1.144)	47354	20.0000	17.9	
	32 2,2-Dichloropropane	77	6.476	6.469	(0.765)	99306	20.0000	18.4	
	33 Bromochloromethane	128	6.684	6.683	(0.789)	43831	20.0000	20.2	
	34 Chloroform	83	6.912	6.912	(0.816)	127967	20.0000	19.6	
	35 Carbon Tetrachloride	117	7.141	7.141	(0.754)	80345	20.0000	17.3	
	36 Tetrahydrofuran	42	7.270	7.262	(0.858)	97053	100.000	97.5	
$	37 Dibromofluoromethane	113	7.341	7.341	(0.867)	62813	20.0000	19.9	
	38 1,1,1-Trichloroethane	97	7.327	7.320	(0.865)	111812	20.0000	18.7	
	39 1,1-Dichloropropene	75	7.620	7.620	(0.805)	95672	20.0000	19.4	
	40 2-Butanone	43	7.692	7.684	(0.908)	150358	100.000	95.0	
	41 Benzene	78	8.163	8.156	(0.862)	316733	20.0000	20.9	
*	42 Pentafluorobenzene	168	8.471	8.470	(1.000)	729428	50.0000		
	43 Cyclohexane	56	6.626	6.626	(0.782)	94310	20.0000	18.5	
	44 Ethyl Methacrylate	69	12.952	12.952	(1.368)	97955	20.0000	18.7	
$	45 1,2-Dichloroethane-D4	65	8.471	8.470	(1.000)	66345	20.0000	19.7	
	46 Tertiary-amyl methyl ether	73	8.506	8.506	(1.004)	197753	20.0000	19.4	
	47 1,2-Dichloroethane	62	8.606	8.606	(0.909)	90585	20.0000	19.8	
	48 Trichloroethene	95	9.350	9.350	(0.987)	79583	20.0000	19.9	
*	49 1,4-Difluorobenzene	114	9.471	9.471	(1.000)	1043781	50.0000		
	50 Dibromomethane	93	10.115	10.114	(1.068)	41947	20.0000	19.3	
	51 1,2-Dichloropropane	63	10.308	10.300	(1.088)	65450	20.0000	20.2	
	52 Bromodichloromethane	83	10.465	10.457	(1.105)	94945	20.0000	18.9	
	53 cis-1,3-dichloropropene	75	11.544	11.544	(1.219)	129694	20.0000	19.6	
	54 1,4-Dioxane	88	10.851	10.843	(1.146)	29490	400.000	364	
$	55 Toluene-D8	98	11.837	11.830	(1.250)	273123	20.0000	20.5	
	56 2-Chloroethylvinylether	63	11.516	11.515	(1.216)	18744	20.0000	16.9	
	57 Toluene	92	11.916	11.916	(1.258)	229609	20.0000	20.6	
	58 4-methyl-2-pentanone	43	12.602	12.595	(1.331)	299967	100.000	99.3	
	59 Tetrachloroethene	164	12.502	12.502	(0.878)	79891	20.0000	19.4	
	60 trans-1,3-Dichloropropene	75	11.544	11.544	(1.219)	129694	20.0000	19.6	
	61 1,1,2-Trichloroethane	83	12.867	12.866	(1.358)	56360	20.0000	20.0	
	62 Dibromochloromethane	129	13.117	13.117	(0.921)	81515	20.0000	18.7	
	63 1,3-Dichloropropane	76	13.267	13.267	(0.932)	123939	20.0000	20.0	
	64 1,2-Dibromoethane	107	13.439	13.438	(1.419)	73678	20.0000	19.2	
	65 2-Hexanone	43	13.903	13.903	(0.976)	218580	100.000	96.2	
*	66 Chlorobenzene-D5	117	14.239	14.239	(1.000)	939459	50.0000		
	67 Chlorobenzene	112	14.268	14.267	(1.002)	275939	20.0000	21.1	
	152 1-Chlorohexane	91	14.289	14.289	(1.687)	108215	20.0000	17.8	
	68 Ethylbenzene	106	14.339	14.339	(1.007)	145331	20.0000	20.5	
	69 1,1,1,2-Tetrachloroethane	131	14.382	14.382	(1.010)	87524	20.0000	19.4	
	71 m+p-Xylenes	106	14.575	14.575	(1.024)	365899	40.0000	42.6	
	72 o-Xylene	106	15.211	15.211	(1.068)	178565	20.0000	20.3	
	73 Styrene	104	15.297	15.297	(1.074)	284672	20.0000	20.5	
	74 Bromoform	173	15.304	15.304	(1.075)	56878	20.0000	18.1	
	75 Isopropylbenzene	105	15.690	15.690	(0.868)	447808	20.0000	21.3	
$	76 P-Bromofluorobenzene	95	16.098	16.090	(1.700)	108256	20.0000	19.5	
	77 cis-1,4-Dichloro-2-Butene	53	16.241	16.239	(0.899)	28616	20.0000	18.6	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1905.D
Report Date: 20-Jan-2015 08:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	16.755	16.754	(0.927)	23464	20.0000	18.2	
79	Bromobenzene	156	16.233	16.226	(0.898)	121824	20.0000	21.1	
80	N-Propylbenzene	91	16.319	16.319	(0.903)	501565	20.0000	21.4	
81	1,1,2,2-Tetrachloroethane	83	16.469	16.469	(0.911)	98965	20.0000	20.1	
82	1,3,5-Trimethylbenzene	105	16.662	16.662	(0.922)	392308	20.0000	21.0	
83	2-Chlorotoluene	91	16.541	16.540	(0.915)	316885	20.0000	21.0	
84	1,2,3-Trichloropropane	75	16.655	16.655	(0.922)	82829	20.0000	20.4	
85	4-Chlorotoluene	91	16.834	16.826	(0.932)	327621	20.0000	20.9	
86	tert-Butylbenzene	119	17.206	17.204	(0.952)	396622	20.0000	20.5	
87	Pentachloroethane	117	17.220	17.219	(0.953)	73042	20.0000	19.6	
88	1,2,4-Trimethylbenzene	105	17.348	17.347	(0.960)	398931	20.0000	20.9	
89	P-Isopropyltoluene	119	17.849	17.849	(0.988)	437469	20.0000	20.2	
90	1,3-Dichlorobenzene	146	17.920	17.920	(0.992)	252195	20.0000	20.8	
* 91	1,4-Dichlorobenzene-D4	152	18.070	18.070	(1.000)	566004	50.0000		
92	1,4-Dichlorobenzene	146	18.092	18.092	(1.001)	243890	20.0000	20.6	
93	N-Butylbenzene	91	18.635	18.635	(1.031)	363857	20.0000	20.2	
94	sec-Butylbenzene	105	17.549	17.548	(0.971)	502304	20.0000	20.4	
95	1,2-Dichlorobenzene	146	18.857	18.856	(1.044)	242712	20.0000	20.6	
96	1,2-Dibromo-3-Chloropropane	75	20.272	20.265	(1.122)	22104	20.0000	18.3	
97	1,3,5-Trichlorobenzene	180	20.315	20.315	(2.398)	239483	20.0000	20.0	
98	Hexachlorobutadiene	225	21.366	21.365	(1.182)	92094	20.0000	20.0	
99	1,2,4-Trichlorobenzene	180	21.380	21.380	(1.183)	200760	20.0000	21.4	
100	1,2,3-Trimethylbenzene	105	18.171	18.170	(2.145)	428689	20.0000	19.5	
101	Naphthalene	128	21.895	21.894	(1.212)	522120	20.0000	22.3	
102	1,2,3-Trichlorobenzene	180	22.181	22.180	(1.227)	199028	20.0000	21.8	
103	Methyl Acetate	43	4.268	4.267	(0.504)	41579	20.0000	19.3	
104	Methylcyclohexane	83	9.286	9.278	(1.096)	128523	20.0000	18.2	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Sample Info: WG157196-3
Column phase: RTX-VMS
Instrument: gcms-w.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-w.i\W011915.b\W1905.D
Y (x10^6)
Min
-Chloromethane (1.945)
-Vinyl Chloride (2.024)
-Bromomethane (2.367)
-Trichlorofluoromethane (2.646)
-Diethyl Ether (3.003)
-1,1-Dichloroethene (3.232)+
-Iodomethane (3.403)
-Acrolein (3.675)
-Allyl Chloride (3.839)
-Methylene Chloride (3.989)
-Acetone (4.002)
-trans-1,2-Dichloroethene (4.211)+
-Methyl tert-butyl ether (4.390)
-Acetonitrile (4.797)
-Di-isopropyl ether (5.026)
-Chloroprene (5.159)+
-Acrylonitrile (5.333)
-Tertiary-butyl alcohol (5.705)+
-cis-1,2-Dichloroethene (6.255)
-2,2-Dichloropropane (6.477)
-Bromochloromethane (6.684)+
-Chloroform (6.913)
-Carbon Tetrachloride (7.142)
-Tetrahydrofuran (7.270)+
-1,1-Dichloropropene (7.621)+
-Benzene (8.164)
-Pentafluorobenzene (8.471)+
-1,2-Dichloroethane (8.607)
-Isobutyl Alcohol (8.900)
-Trichloroethene (9.286)+
-1,4-Difluorobenzene (9.472)
-Dibromomethane (10.115)
-1,2-Dichloropropane (10.301)
-Bromodichloromethane (10.465)
-Methyl Methacrylate (10.837)+
-cis-1,3-dichloropropene (11.545)+
-Toluene-D8 (11.839)
-Tetrachloroethene (12.503)
-4-methyl-2-pentanone (12.603)
-Ethyl Methacrylate (12.867)
-Dibromochloromethane (13.117)
-1,3-Dichloropropane (13.267)
-2-Hexanone (13.904)
-1,1,1,2-Tetrachloroethane (14.383)
-m+p-Xylenes (14.576)+
-Chlorobenzene-D5 (14.247)+
-o-Xylene (15.212)
-Styrene (15.298)+
-Isopropylbenzene (15.691)
-P-Bromofluorobenzene (16.098)
-cis-1,4-Dichloro-2-Butene (16.234)+
-n-Propylbenzene (16.326)
-1,1,2,2-Tetrachloroethane (16.541)
-Bromobenzene (16.570)
-1,3,5-Trimethylbenzene (16.663)+
-trans-1,4-Dichloro-2-Butene (16.806)+
-4-Chlorotoluene (16.827)
-tert-Butylbenzene (17.206)+
-1,2,4-Trimethylbenzene (17.349)
-sec-Butylbenzene (17.549)
-p-Isopropyltoluene (17.849)
-1,3-Dichlorobenzene (17.921)
-1,2,3-Trimethylbenzene (18.171)
1,4-Dichlorobenzene-D4 (18.071)+
-N-Butylbenzene (18.636)
-1,2-Dichlorobenzene (18.857)
-1,2-Dibromo-3-Chloropropa (20.273)+
-1,3,5-Trichlorobenzene (20.315)
-Hexachlorobutadiene (21.380)+
-Naphthalene (21.895)
-1,2,3-Trichlorobenzene (22.181)

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1906.D
Report Date: 20-Jan-2015 08:15

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1906.D
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Inj Date : 19-JAN-2015 12:56
Operator : REC Inst ID: gcms-w.i
Smp Info : WG157196-2
Misc Info :
Comment : SW846 5035
Method : \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 12:56 Cal File: W1906.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.000	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.740	1.737	(0.205)	43608	10.0000	9.3	
2	Chloromethane	50	1.947	1.951	(0.230)	47783	10.0000	10.8	
3	Vinyl chloride	62	2.025	2.023	(0.239)	42308	10.0000	9.9	
4	Bromomethane	94	2.369	2.366	(0.280)	24741	10.0000	11.4	
5	Chloroethane	64	2.497	2.495	(0.295)	15609	10.0000	11.1	
6	Trichlorofluoromethane	101	2.647	2.638	(0.312)	51688	10.0000	10.1	
7	Diethyl Ether	59	3.005	3.009	(0.355)	24609	10.0000	10.4	
8	Tertiary-butyl alcohol	59	5.700	5.697	(0.673)	98895	50.0000	49.5	
9	1,1-Dichloroethene	96	3.233	3.224	(0.382)	31773	10.0000	10.2	
10	Carbon Disulfide	76	3.255	3.252	(0.384)	84476	10.0000	10.3	
11	Freon-113	151	3.276	3.274	(0.387)	27897	10.0000	10.4	
12	Iodomethane	142	3.405	3.402	(0.402)	25610	10.0000	7.9	
13	Acrolein	56	3.670	3.674	(0.433)	21419	50.0000	52.3	
14	Methylene Chloride	84	3.984	3.989	(0.470)	58056	10.0000	13.6(a)	
15	Acetone	43	4.084	4.089	(0.482)	50123	50.0000	50.7	
16	Isobutyl Alcohol	43	8.902	8.899	(1.051)	30234	200.000	298	
17	trans-1,2-Dichloroethene	96	4.213	4.210	(0.497)	39093	10.0000	10.8	
18	Allyl Chloride	41	3.841	3.838	(0.453)	37855	10.0000	10.7	
19	Methyl tert-butyl ether	73	4.391	4.389	(0.518)	222924	20.0000	20.4	
20	Acetonitrile	39	4.806	4.796	(0.567)	8381	100.000	96.6	
21	Di-isopropyl ether	45	5.028	5.025	(0.593)	88054	10.0000	10.3	
22	Chloroprene	53	5.156	5.154	(0.609)	51499	10.0000	10.2	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1906.D
Report Date: 20-Jan-2015 08:15

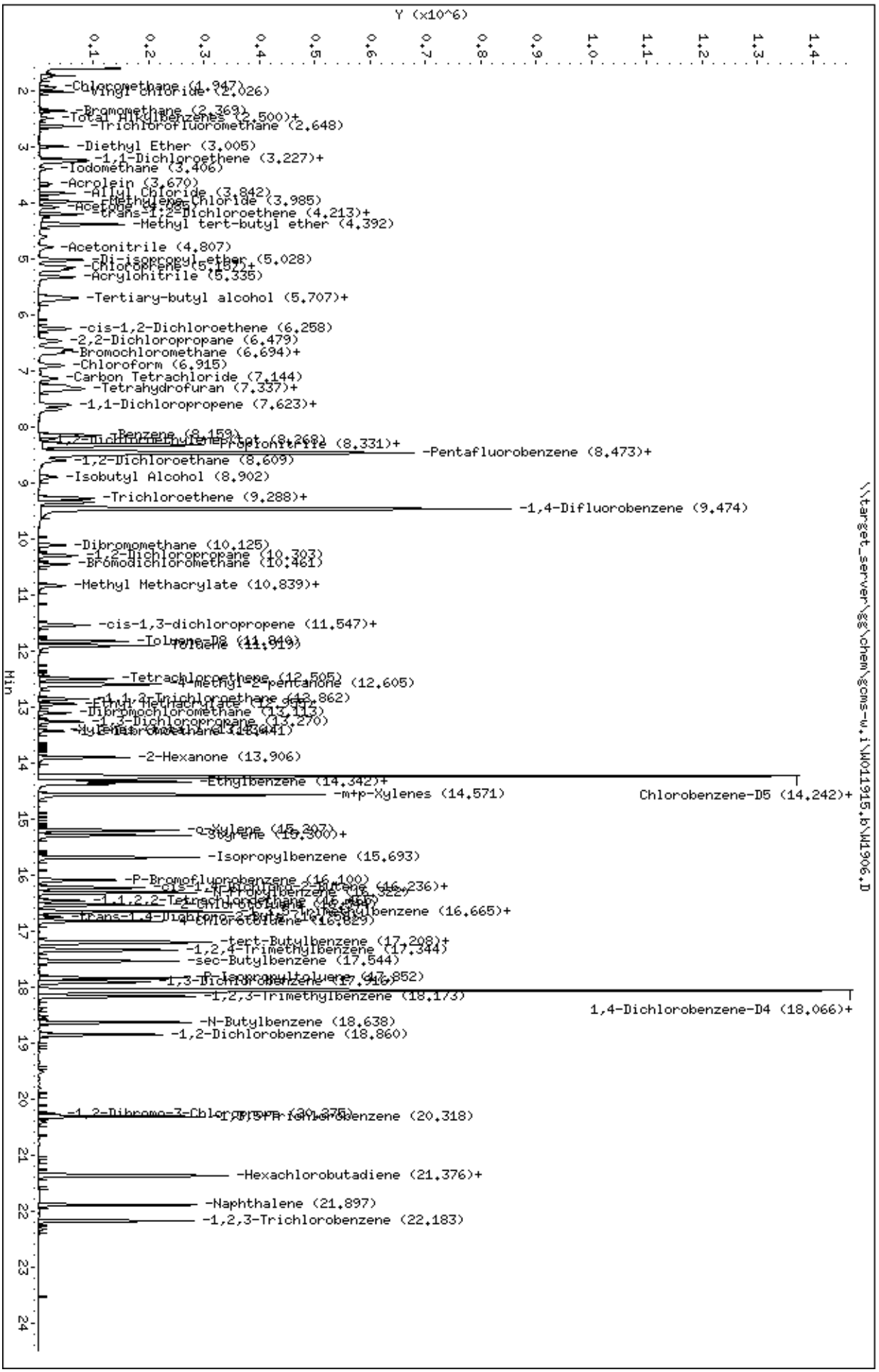
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
	23 Propionitrile	54	8.301	8.305	(0.980)	59244	100.000	101	
	24 Methacrylonitrile	41	8.330	8.335	(0.983)	189046	100.000	105	
	25 1,1-Dichloroethane	63	5.206	5.204	(0.614)	65072	10.0000	10.6	
	26 Acrylonitrile	52	5.335	5.332	(0.630)	58329	50.0000	52.9	
	27 Ethyl tertiary-butyl ether	59	5.700	5.697	(0.673)	98895	10.0000	9.9	
	28 Vinyl Acetate	43	5.742	5.740	(0.606)	62327	10.0000	9.8	
	29 cis-1,2-Dichloroethene	96	6.257	6.254	(0.738)	47278	10.0000	10.4	
	31 Methyl Methacrylate	41	10.839	10.829	(1.144)	21525	10.0000	8.3	
	32 2,2-Dichloropropane	77	6.479	6.469	(0.765)	52828	10.0000	9.8	
	33 Bromochloromethane	128	6.693	6.683	(0.790)	22231	10.0000	10.2	
	34 Chloroform	83	6.915	6.912	(0.816)	67305	10.0000	10.2	
	35 Carbon Tetrachloride	117	7.143	7.141	(0.754)	41655	10.0000	9.0	
	36 Tetrahydrofuran	42	7.279	7.262	(0.859)	47433	50.0000	47.9	
$	37 Dibromofluoromethane	113	7.344	7.341	(0.867)	33330	10.0000	10.4	
	38 1,1,1-Trichloroethane	97	7.329	7.320	(0.865)	59352	10.0000	9.9	
	39 1,1-Dichloropropene	75	7.622	7.620	(0.805)	50560	10.0000	10.1	
	40 2-Butanone	43	7.694	7.684	(0.908)	73708	50.0000	47.0	
	41 Benzene	78	8.158	8.156	(0.861)	163634	10.0000	10.5	
*	42 Pentafluorobenzene	168	8.473	8.470	(1.000)	733673	50.0000		
	43 Cyclohexane	56	6.629	6.626	(0.782)	51135	10.0000	10	
	44 Ethyl Methacrylate	69	12.955	12.952	(1.367)	44283	10.0000	8.6	
$	45 1,2-Dichloroethane-D4	65	8.466	8.470	(0.999)	34341	10.0000	10.1	
	46 Tertiary-amyl methyl ether	73	8.509	8.506	(1.004)	97303	10.0000	9.6	
	47 1,2-Dichloroethane	62	8.609	8.606	(0.909)	47002	10.0000	10.1	
	48 Trichloroethene	95	9.352	9.350	(0.987)	43364	10.0000	10.5	
*	49 1,4-Difluorobenzene	114	9.474	9.471	(1.000)	1061740	50.0000		
	50 Dibromomethane	93	10.124	10.114	(1.069)	21806	10.0000	9.9	
	51 1,2-Dichloropropane	63	10.303	10.300	(1.088)	33093	10.0000	10.0	
	52 Bromodichloromethane	83	10.460	10.457	(1.104)	47714	10.0000	9.4	
	53 cis-1,3-dichloropropene	75	11.547	11.544	(1.219)	60510	10.0000	9.2	
	54 1,4-Dioxane	88	10.860	10.843	(1.146)	14578	200.000	181	
$	55 Toluene-D8	98	11.840	11.830	(1.250)	140128	10.0000	10.3	
	56 2-Chloroethylvinylether	63	11.518	11.515	(1.216)	8595	10.0000	8.0	
	57 Toluene	92	11.918	11.916	(1.258)	119456	10.0000	10.4	
	58 4-methyl-2-pentanone	43	12.597	12.595	(1.330)	143143	50.0000	47.2	
	59 Tetrachloroethene	164	12.504	12.502	(0.878)	43511	10.0000	10.3	
	60 trans-1,3-Dichloropropene	75	11.547	11.544	(1.219)	60510	10.0000	9.2	
	61 1,1,2-Trichloroethane	83	12.869	12.866	(1.358)	28121	10.0000	9.8	
	62 Dibromochloromethane	129	13.112	13.117	(0.921)	39460	10.0000	9.0	
	63 1,3-Dichloropropane	76	13.269	13.267	(0.932)	62308	10.0000	9.9	
	64 1,2-Dibromoethane	107	13.441	13.438	(1.419)	36864	10.0000	9.6	
	65 2-Hexanone	43	13.905	13.903	(0.976)	102092	50.0000	45.0	
*	66 Chlorobenzene-D5	117	14.241	14.239	(1.000)	960720	50.0000		
	67 Chlorobenzene	112	14.270	14.267	(1.002)	147330	10.0000	10.8	
	152 1-Chlorohexane	91	14.291	14.289	(1.687)	58836	10.0000	9.7	
	68 Ethylbenzene	106	14.341	14.339	(1.007)	77694	10.0000	10.6	
	69 1,1,1,2-Tetrachloroethane	131	14.384	14.382	(1.010)	44796	10.0000	9.8	
	71 m+p-Xylenes	106	14.570	14.575	(1.023)	192127	20.0000	21.5	
	72 o-Xylene	106	15.214	15.211	(1.068)	90277	10.0000	10.0	
	73 Styrene	104	15.299	15.297	(1.074)	141837	10.0000	10.0	
	74 Bromoform	173	15.306	15.304	(1.075)	27314	10.0000	8.8	
	75 Isopropylbenzene	105	15.692	15.690	(0.869)	234378	10.0000	10.8	
$	76 P-Bromofluorobenzene	95	16.093	16.090	(1.699)	54701	10.0000	9.7	
	77 cis-1,4-Dichloro-2-Butene	53	16.236	16.239	(0.899)	13645	10.0000	9.0	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1906.D
Report Date: 20-Jan-2015 08:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	16.757	16.754	(0.928)	11491	10.0000	9.1	
79	Bromobenzene	156	16.229	16.226	(0.898)	62832	10.0000	10.6	
80	N-Propylbenzene	91	16.321	16.319	(0.903)	263817	10.0000	10.9	
81	1,1,2,2-Tetrachloroethane	83	16.472	16.469	(0.912)	49544	10.0000	10.0	
82	1,3,5-Trimethylbenzene	105	16.665	16.662	(0.922)	202599	10.0000	10.6	
83	2-Chlorotoluene	91	16.543	16.540	(0.916)	166977	10.0000	10.8	
84	1,2,3-Trichloropropane	75	16.657	16.655	(0.922)	40874	10.0000	10.0	
85	4-Chlorotoluene	91	16.829	16.826	(0.932)	168330	10.0000	10.6	
86	tert-Butylbenzene	119	17.208	17.204	(0.953)	204880	10.0000	10.4	
87	Pentachloroethane	117	17.222	17.219	(0.953)	37113	10.0000	9.9	
88	1,2,4-Trimethylbenzene	105	17.344	17.347	(0.960)	204575	10.0000	10.5	
89	P-Isopropyltoluene	119	17.851	17.849	(0.988)	228782	10.0000	10.4	
90	1,3-Dichlorobenzene	146	17.923	17.920	(0.992)	132274	10.0000	10.7	
* 91	1,4-Dichlorobenzene-D4	152	18.066	18.070	(1.000)	569260	50.0000		
92	1,4-Dichlorobenzene	146	18.094	18.092	(1.002)	126949	10.0000	10.5	
93	N-Butylbenzene	91	18.637	18.635	(1.032)	190031	10.0000	10.4	
94	sec-Butylbenzene	105	17.551	17.548	(0.972)	262011	10.0000	10.5	
95	1,2-Dichlorobenzene	146	18.859	18.856	(1.044)	126760	10.0000	10.6	
96	1,2-Dibromo-3-Chloropropane	75	20.267	20.265	(1.122)	9880	10.0000	8.4	
97	1,3,5-Trichlorobenzene	180	20.317	20.315	(2.398)	121100	10.0000	10.0	
98	Hexachlorobutadiene	225	21.368	21.365	(1.183)	50563	10.0000	10.7	
99	1,2,4-Trichlorobenzene	180	21.382	21.380	(1.184)	101560	10.0000	10.6	
100	1,2,3-Trimethylbenzene	105	18.173	18.170	(2.145)	218736	10.0000	9.9	
101	Naphthalene	128	21.897	21.894	(1.212)	257645	10.0000	10.7	
102	1,2,3-Trichlorobenzene	180	22.183	22.180	(1.228)	100323	10.0000	10.7	
103	Methyl Acetate	43	4.270	4.267	(0.504)	21333	10.0000	9.9	
104	Methylcyclohexane	83	9.288	9.278	(1.096)	70311	10.0000	9.9	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Sample Info: WG157196-2
Column phase: RTX-VMS
Instrument: gcms-w.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-w.i\W011915.b\W1906.D
Y (x10^6)
Min
-Chloromethane (1.947)
-Vinyl chloride (2.026)
-Bromomethane (2.369)
-Total Xylenes (2.500)+
-Trichlorofluoromethane (2.648)
-Diethyl Ether (3.005)
-1,1-Dichloroethene (3.227)+
-Iodomethane (3.406)
-Acrolein (3.670)
-Allyl Chloride (3.842)
-Methylene Chloride (3.985)
-Acetone (4.105)+
-trans-1,2-Dichloroethene (4.213)+
-Methyl tert-butyl ether (4.392)
-Acetonitrile (4.807)
-Di-isopropyl ether (5.028)
-Chloroprene (5.187)+
-Acrylonitrile (5.335)
-Tertiary-butyl alcohol (5.707)+
-cis-1,2-Dichloroethene (6.258)
-2,2-Dichloropropane (6.479)
-Bromochloromethane (6.694)+
-Chloroform (6.915)
-Carbon Tetrachloride (7.144)
-Tetrahydrofuran (7.337)+
-1,1-Dichloropropene (7.623)+
-Benzene (8.159)
-Propionitrile (8.331)+
-Pentafluorobenzene (8.473)+
-1,2-Dichloroethane (8.609)
-Isobutyl Alcohol (8.902)
-Trichloroethene (9.288)+
-1,4-Difluorobenzene (9.474)
-Dibromomethane (10.125)
-1,2-Dichloropropane (10.303)
-Bromodichloromethane (10.461)
-Methyl Methacrylate (10.839)+
-cis-1,3-dichloropropene (11.547)+
-Toluene-D8 (11.840)
-Tetrachloroethene (12.505)
-4-methyl-2-pentanone (12.605)
-Dibromochloromethane (13.113)
-1,3-Dichloropropane (13.270)
-2-Hexanone (13.906)
-Ethylbenzene (14.342)+
-m+p-Xylenes (14.571)
Chlorobenzene-D5 (14.242)+
-o-Xylene (15.207)
-Isopropylbenzene (15.693)
-P-Bromofluorobenzene (16.100)
-1,1,2,2-Tetrachloroethane (16.450)
-trans-1,4-Dichloro-2-butene (16.665)+
-tert-Butylbenzene (17.208)+
-1,2,4-Trimethylbenzene (17.344)
-sec-Butylbenzene (17.544)
-1,3-Dichlorobenzene (17.916)
-1,2,3-Trimethylbenzene (18.173)
1,4-Dichlorobenzene-D4 (18.066)+
-N-Butylbenzene (18.638)
-1,2-Dichlorobenzene (18.860)
-1,2-Dibromo-3-Chloropropane (20.375)
-1,3,5-Trichlorobenzene (20.318)
-Hexachlorobutadiene (21.376)+
-Naphthalene (21.897)
-1,2,3-Trichlorobenzene (22.183)

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1907.D
Report Date: 20-Jan-2015 08:15

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1907.D
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Inj Date : 19-JAN-2015 13:29
Operator : REC Inst ID: gcms-w.i
Smp Info : WG157196-1
Misc Info :
Comment : SW846 5035
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Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 13:29 Cal File: W1907.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.000	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.738	1.737	(0.205)	20618	5.00000	4.5(a)	
2	Chloromethane	50	1.946	1.951	(0.230)	20652	5.00000	4.7(a)	
3	Vinyl chloride	62	2.024	2.023	(0.239)	18416	5.00000	4.4(a)	
4	Bromomethane	94	2.367	2.366	(0.279)	12172	5.00000	5.5	
5	Chloroethane	64	2.496	2.495	(0.295)	7549	5.00000	5.3	
6	Trichlorofluoromethane	101	2.646	2.638	(0.312)	23901	5.00000	4.8(a)	
7	Diethyl Ether	59	3.004	3.009	(0.355)	12196	5.00000	5.1	
8	Tertiary-butyl alcohol	59	5.698	5.697	(0.673)	46121	25.0000	23.5(a)	
9	1,1-Dichloroethene	96	3.232	3.224	(0.382)	14626	5.00000	4.8(a)	
10	Carbon Disulfide	76	3.254	3.252	(0.384)	38519	5.00000	4.8(a)	
11	Freon-113	151	3.275	3.274	(0.387)	13675	5.00000	5.1	
12	Iodomethane	142	3.404	3.402	(0.402)	10536	5.00000	3.5(a)	
13	Acrolein	56	3.676	3.674	(0.434)	10509	25.0000	25.6	
15	Acetone	43	4.090	4.089	(0.483)	24050	25.0000	24.5(a)	
16	Isobutyl Alcohol	43	8.901	8.899	(1.051)	12945	100.000	194	
17	trans-1,2-Dichloroethene	96	4.212	4.210	(0.497)	17190	5.00000	4.8(a)	
18	Allyl Chloride	41	3.840	3.838	(0.453)	16749	5.00000	4.8(a)	
19	Methyl tert-butyl ether	73	4.390	4.389	(0.518)	105255	10.0000	9.7	
21	Di-isopropyl ether	45	5.026	5.025	(0.593)	41610	5.00000	4.9(a)	
22	Chloroprene	53	5.155	5.154	(0.609)	22814	5.00000	4.6(a)	
23	Propionitrile	54	8.307	8.305	(0.981)	28408	50.0000	49.0(a)	
24	Methacrylonitrile	41	8.336	8.335	(0.984)	90231	50.0000	50.3	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1907.D
Report Date: 20-Jan-2015 08:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.205	5.204	(0.614)	29185	5.00000	4.8(a)	
	26 Acrylonitrile	52	5.334	5.332	(0.630)	28189	25.0000	25.6	
	27 Ethyl tertiary-butyl ether	59	5.698	5.697	(0.673)	46121	5.00000	4.7(a)	
	28 Vinyl Acetate	43	5.741	5.740	(0.606)	27098	5.00000	4.4(a)	
	29 cis-1,2-Dichloroethene	96	6.256	6.254	(0.738)	20871	5.00000	4.7(a)	
	31 Methyl Methacrylate	41	10.838	10.829	(1.144)	9130	5.00000	3.8(a)	
	32 2,2-Dichloropropane	77	6.478	6.469	(0.765)	23059	5.00000	4.4(a)	
	33 Bromochloromethane	128	6.685	6.683	(0.789)	10699	5.00000	4.9(a)	
	34 Chloroform	83	6.921	6.912	(0.817)	30150	5.00000	4.7(a)	
	35 Carbon Tetrachloride	117	7.135	7.141	(0.753)	17992	5.00000	4.1(a)	
	36 Tetrahydrofuran	42	7.285	7.262	(0.860)	21421	25.0000	22.2(a)	
$	37 Dibromofluoromethane	113	7.350	7.341	(0.868)	14573	5.00000	4.6(a)	
	38 1,1,1-Trichloroethane	97	7.328	7.320	(0.865)	26431	5.00000	4.5(a)	
	39 1,1-Dichloropropene	75	7.621	7.620	(0.805)	22651	5.00000	4.7(a)	
	40 2-Butanone	43	7.693	7.684	(0.908)	33035	25.0000	21.7(a)	
	41 Benzene	78	8.157	8.156	(0.861)	72091	5.00000	4.8(a)	
*	42 Pentafluorobenzene	168	8.472	8.470	(1.000)	730077	50.0000		
	43 Cyclohexane	56	6.628	6.626	(0.782)	23661	5.00000	4.7(a)	
	44 Ethyl Methacrylate	69	12.954	12.952	(1.367)	18046	5.00000	3.8(a)	
$	45 1,2-Dichloroethane-D4	65	8.465	8.470	(0.999)	16405	5.00000	4.9(a)	
	46 Tertiary-amyl methyl ether	73	8.508	8.506	(1.004)	45789	5.00000	4.6(a)	
	47 1,2-Dichloroethane	62	8.608	8.606	(0.909)	22550	5.00000	5.0	
	48 Trichloroethene	95	9.351	9.350	(0.987)	19319	5.00000	4.8(a)	
*	49 1,4-Difluorobenzene	114	9.473	9.471	(1.000)	1035134	50.0000		
	50 Dibromomethane	93	10.116	10.114	(1.068)	10330	5.00000	4.8(a)	
	51 1,2-Dichloropropane	63	10.302	10.300	(1.088)	15273	5.00000	4.8(a)	
	52 Bromodichloromethane	83	10.466	10.457	(1.105)	21935	5.00000	4.5(a)	
	53 cis-1,3-dichloropropene	75	11.545	11.544	(1.219)	26977	5.00000	4.3(a)	
	54 1,4-Dioxane	88	10.866	10.843	(1.147)	5661	100.000	75.6(a)	
$	55 Toluene-D8	98	11.839	11.830	(1.250)	60487	5.00000	4.6(a)	
	56 2-Chloroethylvinylether	63	11.524	11.515	(1.217)	3641	5.00000	9.3	
	57 Toluene	92	11.917	11.916	(1.258)	54356	5.00000	4.9(a)	
	58 4-methyl-2-pentanone	43	12.603	12.595	(1.330)	61163	25.0000	21.3(a)	
	59 Tetrachloroethene	164	12.503	12.502	(0.878)	19204	5.00000	4.7(a)	
	60 trans-1,3-Dichloropropene	75	11.545	11.544	(1.219)	26977	5.00000	4.3(a)	
	61 1,1,2-Trichloroethane	83	12.868	12.866	(1.358)	13258	5.00000	4.8(a)	
	62 Dibromochloromethane	129	13.118	13.117	(0.921)	18211	5.00000	4.4(a)	
	63 1,3-Dichloropropane	76	13.268	13.267	(0.932)	29041	5.00000	4.7(a)	
	64 1,2-Dibromoethane	107	13.440	13.438	(1.419)	16204	5.00000	4.4(a)	
	65 2-Hexanone	43	13.911	13.903	(0.977)	43014	25.0000	20.1(a)	
*	66 Chlorobenzene-D5	117	14.240	14.239	(1.000)	944564	50.0000		
	67 Chlorobenzene	112	14.269	14.267	(1.002)	66380	5.00000	5.0	
	152 1-Chlorohexane	91	14.290	14.289	(1.687)	25078	5.00000	4.3(a)	
	68 Ethylbenzene	106	14.340	14.339	(1.007)	34913	5.00000	4.8(a)	
	69 1,1,1,2-Tetrachloroethane	131	14.383	14.382	(1.010)	20077	5.00000	4.5(a)	
	71 m+p-Xylenes	106	14.576	14.575	(1.024)	84603	10.0000	9.7(a)	
	72 o-Xylene	106	15.212	15.211	(1.068)	38539	5.00000	4.4(a)	
	73 Styrene	104	15.298	15.297	(1.074)	60061	5.00000	4.4(a)	
	74 Bromoform	173	15.305	15.304	(1.075)	11783	5.00000	4.0(a)	
	75 Isopropylbenzene	105	15.691	15.690	(0.869)	99654	5.00000	4.7(a)	
$	76 P-Bromofluorobenzene	95	16.099	16.090	(1.699)	23814	5.00000	4.4(a)	
	77 cis-1,4-Dichloro-2-Butene	53	16.242	16.239	(0.899)	5958	5.00000	4.1(a)	
	78 trans-1,4-Dichloro-2-Butene	53	16.763	16.754	(0.928)	5152	5.00000	4.2(a)	
	79 Bromobenzene	156	16.235	16.226	(0.899)	28773	5.00000	5.0	

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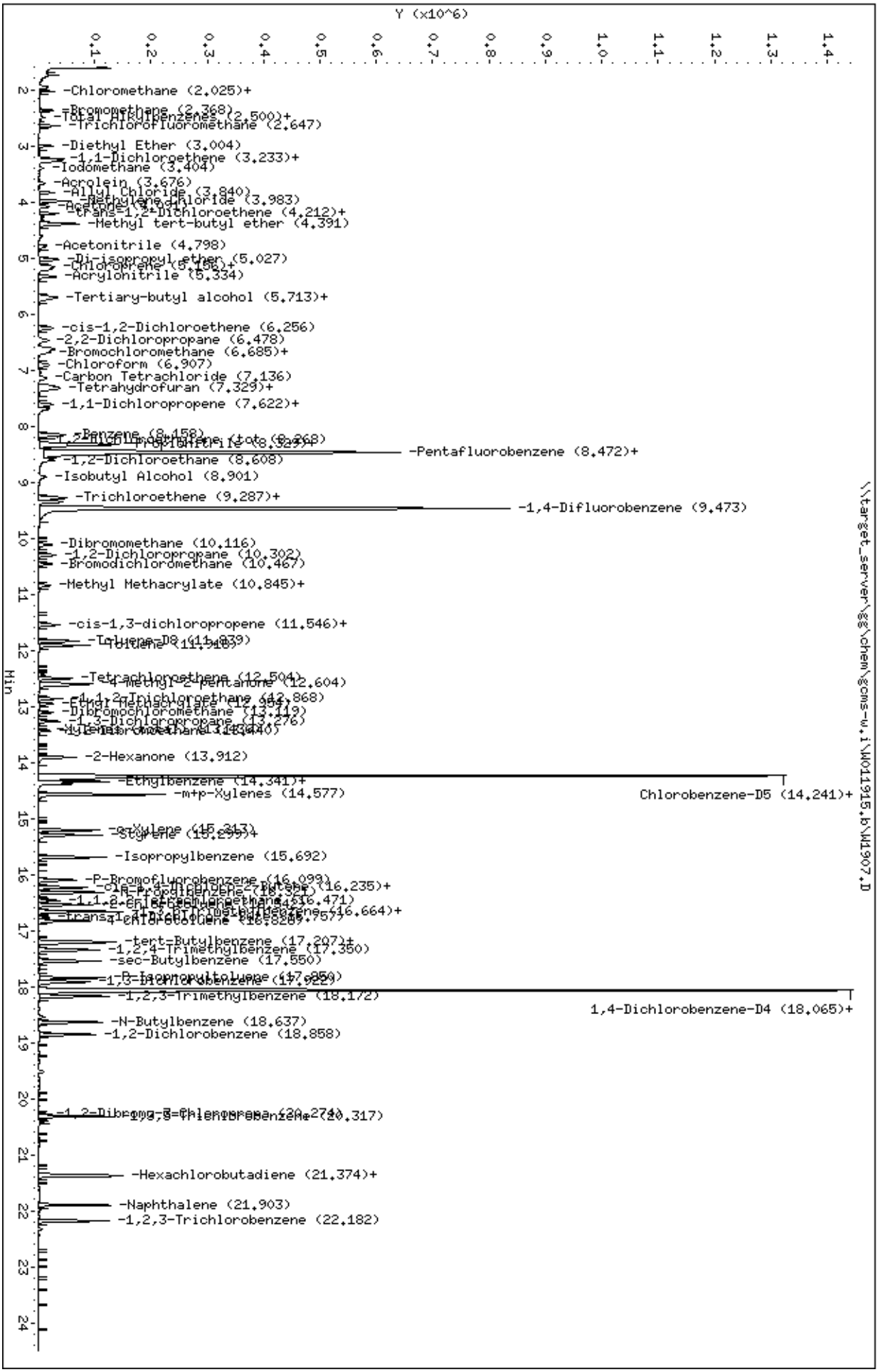
Report Date: 20-Jan-2015 08:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)	REVIEW CODE
80	N-Propylbenzene	91	16.320	16.319	(0.903)	113938	5.00000	4.8(a)	
81	1,1,2,2-Tetrachloroethane	83	16.470	16.469	(0.912)	22815	5.00000	4.7(a)	
82	1,3,5-Trimethylbenzene	105	16.663	16.662	(0.922)	84973	5.00000	4.6(a)	
83	2-Chlorotoluene	91	16.542	16.540	(0.916)	71460	5.00000	4.7(a)	
84	1,2,3-Trichloropropane	75	16.656	16.655	(0.922)	19519	5.00000	4.9(a)	
85	4-Chlorotoluene	91	16.835	16.826	(0.932)	73661	5.00000	4.7(a)	
86	tert-Butylbenzene	119	17.207	17.204	(0.953)	86511	5.00000	4.5(a)	
87	Pentachloroethane	117	17.221	17.219	(0.953)	16145	5.00000	4.5(a)	
88	1,2,4-Trimethylbenzene	105	17.350	17.347	(0.960)	86527	5.00000	4.6(a)	
89	P-Isopropyltoluene	119	17.850	17.849	(0.988)	97593	5.00000	4.6(a)	
90	1,3-Dichlorobenzene	146	17.921	17.920	(0.992)	60064	5.00000	4.9(a)	
* 91	1,4-Dichlorobenzene-D4	152	18.064	18.070	(1.000)	561094	50.0000		
92	1,4-Dichlorobenzene	146	18.093	18.092	(1.002)	59665	5.00000	5.0	
93	N-Butylbenzene	91	18.636	18.635	(1.032)	81208	5.00000	4.6(a)	
94	sec-Butylbenzene	105	17.550	17.548	(0.972)	113359	5.00000	4.7(a)	
95	1,2-Dichlorobenzene	146	18.858	18.856	(1.044)	57172	5.00000	4.8(a)	
96	1,2-Dibromo-3-Chloropropane	75	20.273	20.265	(1.122)	4745	5.00000	4.2(a)	
97	1,3,5-Trichlorobenzene	180	20.316	20.315	(2.398)	55406	5.00000	4.7(a)	
98	Hexachlorobutadiene	225	21.367	21.365	(1.183)	22462	5.00000	4.8(a)	
99	1,2,4-Trichlorobenzene	180	21.381	21.380	(1.184)	44278	5.00000	4.7(a)	
100	1,2,3-Trimethylbenzene	105	18.172	18.170	(2.145)	96484	5.00000	4.5(a)	
101	Naphthalene	128	21.903	21.894	(1.212)	114490	5.00000	4.9(a)	
102	1,2,3-Trichlorobenzene	180	22.182	22.180	(1.228)	47196	5.00000	5.1	
103	Methyl Acetate	43	4.269	4.267	(0.504)	11728	5.00000	5.4	
104	Methylcyclohexane	83	9.287	9.278	(1.096)	32421	5.00000	4.7(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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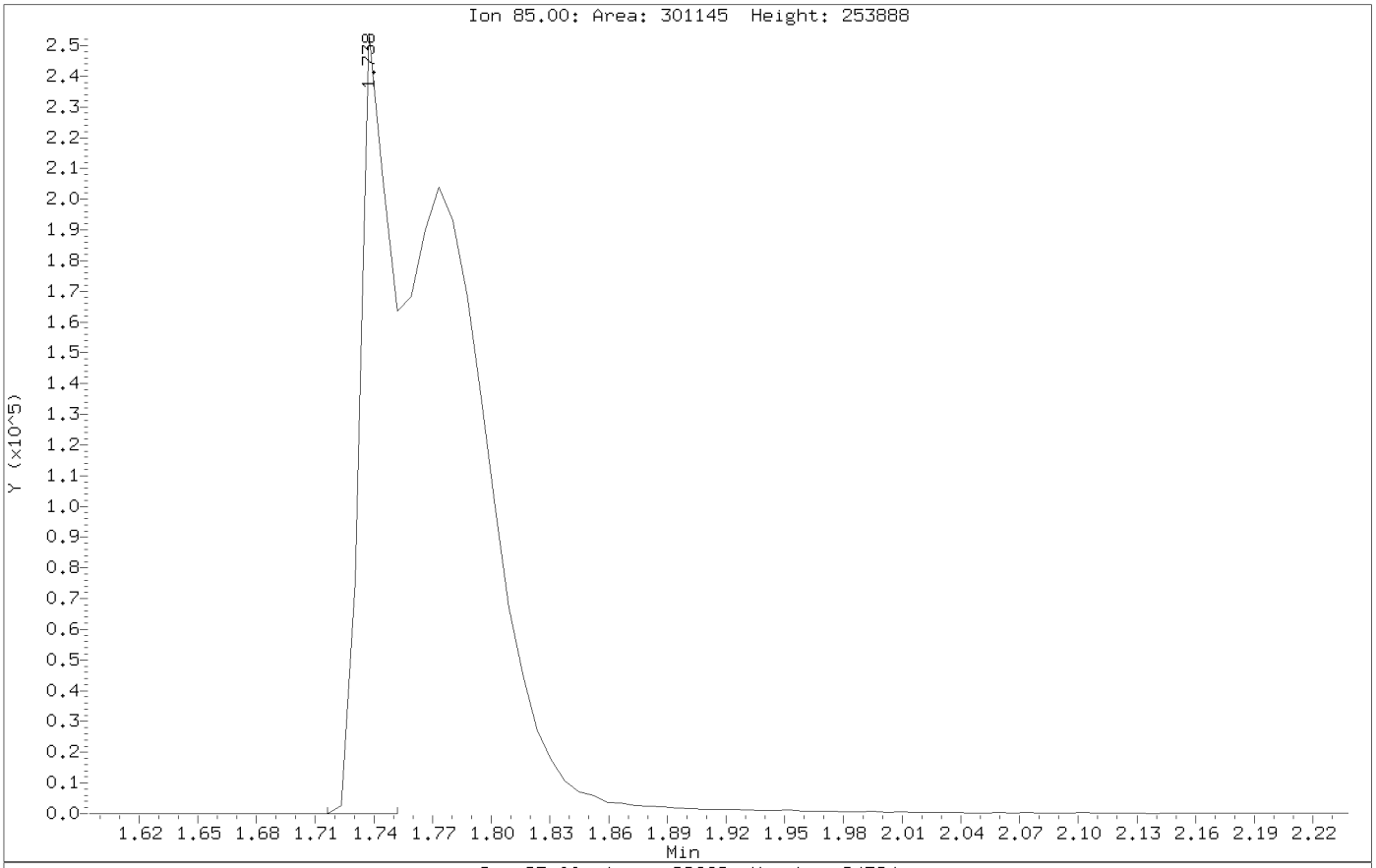
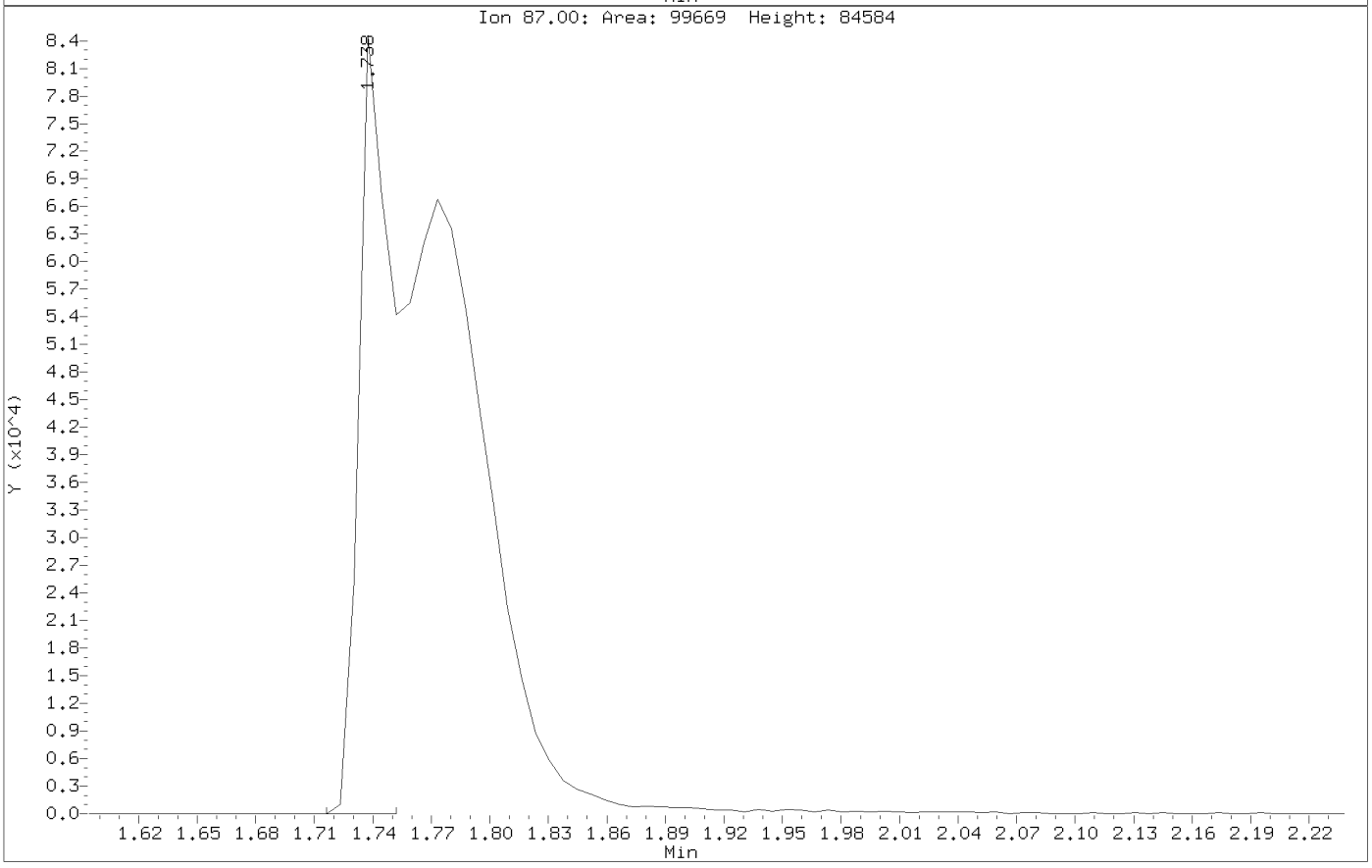
Column phase: RTX-VMS
Instrument: gcms-w.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-w.i\W011915.b\W1907.D
Y (x10^6)
Min
-Chloromethane (2.025)+
-Bromomethane (2.368)
-Total Alkylbenzenes (2.500)+
-Trichlorofluoromethane (2.647)
-Diethyl Ether (3.004)
-1,1-Dichlorgethene (3.233)+
-Iodomethane (3.404)
-Acrolein (3.676)
-Allyl Chloride (3.840)
-Methylene Chloride (3.983)
-trans-1,2-Dichloroethene (4.212)+
-Methyl tert-butyl ether (4.391)
-Acetonitrile (4.798)
-Di-isopropyl ether (5.027)
-Chloroprene (5.156)+
-Acrylonitrile (5.334)
-Tertiary-butyl alcohol (5.713)+
-cis-1,2-Dichloroethene (6.256)
-2,2-Dichloropropane (6.478)
-Bromochloromethane (6.685)+
-Chloroform (6.907)
-Carbon Tetrachloride (7.136)
-Tetrahydrofuran (7.329)+
-1,1-Dichloropropene (7.622)+
-Benzene (8.158)
-Pentafluorobenzene (8.472)+
-1,2-Dichloroethane (8.608)
-Isobutyl Alcohol (8.901)
-Trichloroethene (9.287)+
-1,4-Difluorobenzene (9.473)
-Dibromomethane (10.116)
-1,2-Dichloropropane (10.302)
-Bromodichloromethane (10.467)
-Methyl Methacrylate (10.845)+
-cis-1,3-dichloropropene (11.546)+
-Toluene-D8 (11.839)
-Toluene (11.918)
-Tetrachloroethene (12.504)
-4-Methyl-2-pentanone (12.604)
-1,1,2-Trichloroethane (12.868)
-Ethyl Methacrylate (13.004)
-Dibromochloromethane (13.119)
-1,3-Dichloropropane (13.276)
-2-Hexanone (13.912)
-Ethylbenzene (14.341)+
-m+p-Xylenes (14.577)
Chlorobenzene-D5 (14.241)+
-o-Xylene (15.213)
-Styrene (15.299)+
-Isopropylbenzene (15.692)
-P-Bromofluorobenzene (16.099)
-cis-1,4-Dichloro-2-Butene (16.235)+
-1,1,2-Trichloroethane (16.471)
-trans-1,4-Dichloro-2-Butene (16.664)+
-Chlorotoluene (16.757)
-tert-Butylbenzene (17.207)+
-1,2,4-Trimethylbenzene (17.350)
-sec-Butylbenzene (17.550)
-P-Isopropyltoluene (17.850)
-1,3-Dichlorobenzene (17.922)
-1,2,3-Trimethylbenzene (18.172)
1,4-Dichlorobenzene-D4 (18.065)+
-N-Butylbenzene (18.637)
-1,2-Dichlorobenzene (18.858)
-1,2-Dibromo-3-Chloropropane (20.274)
-1,3,5-Trichlorobenzene (20.317)
-Hexachlorobutadiene (21.374)+
-Naphthalene (21.903)
-1,2,3-Trichlorobenzene (22.182)

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1903.D
Injection Date: 19-JAN-2015 11:19
Instrument: gcms-w.i
Client Sample ID:

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8

BEFORE MANUAL INTEGRATION





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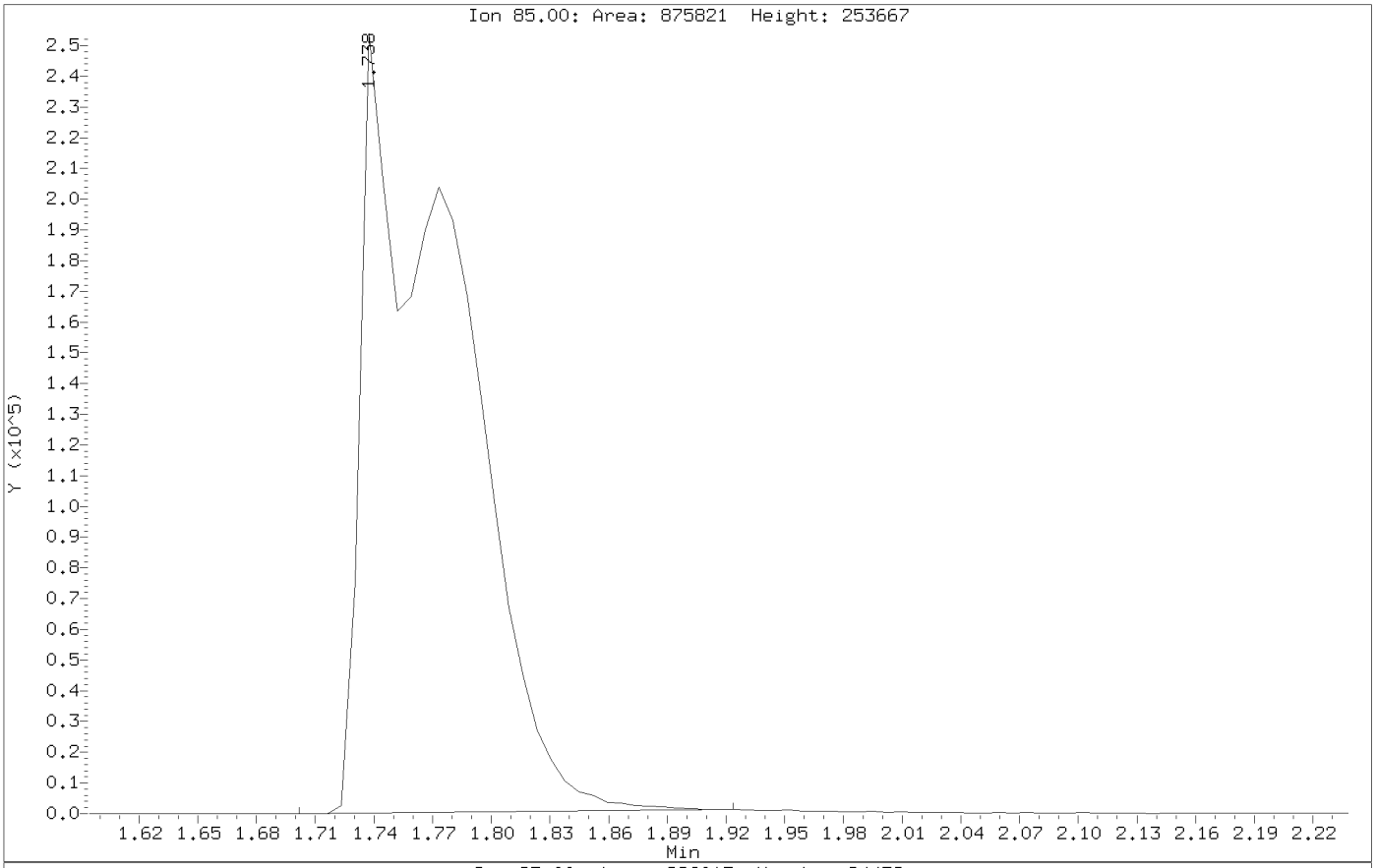
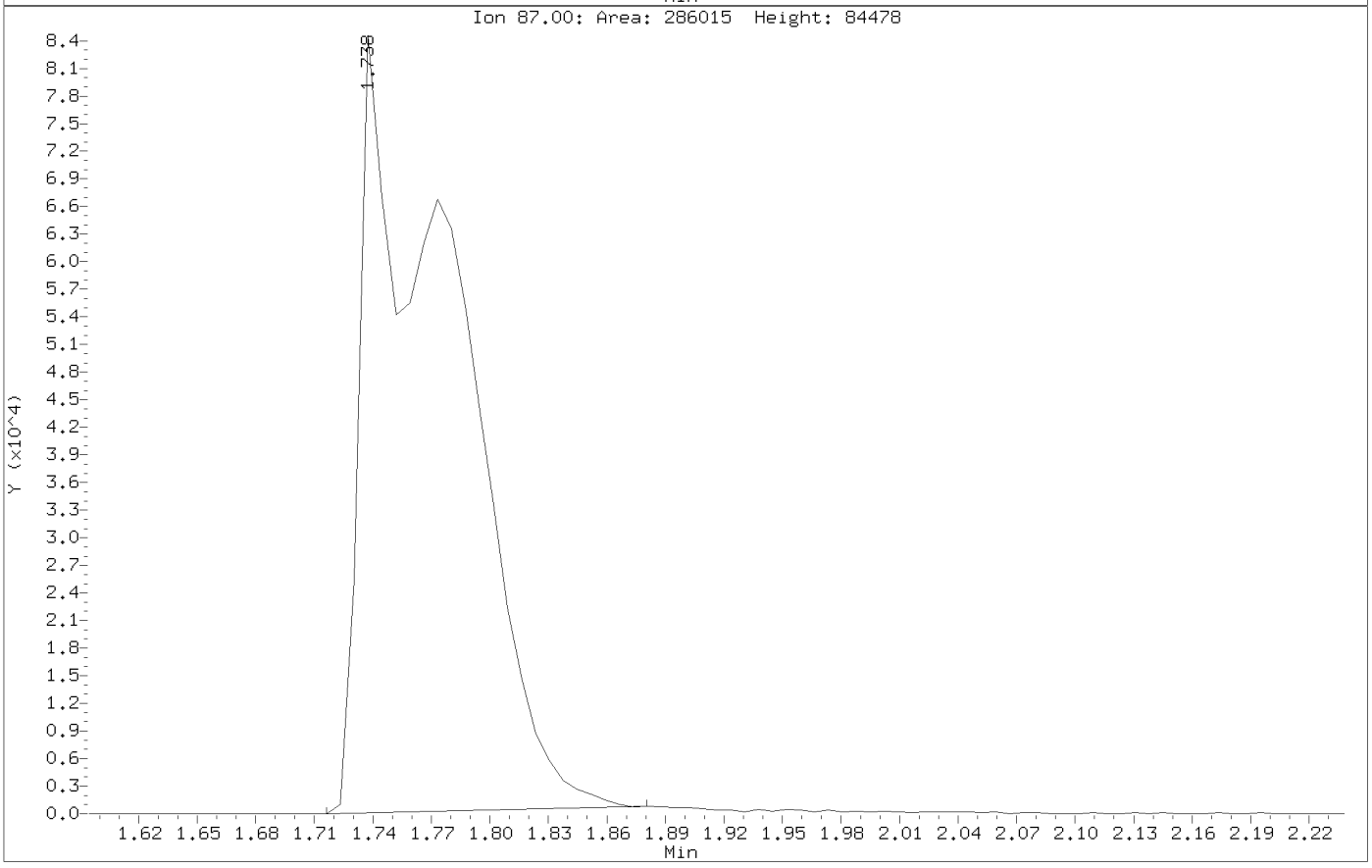
Injection Date: 19-JAN-2015 11:19
Instrument: gcms-w.i
Client Sample ID:

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8

AFTER MANUAL INTEGRATION





Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1908A.D
Report Date: 20-Jan-2015 10:13

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1908A.D
Lab Smp Id: WG157196-7 Client Smp ID: Independent Source
Inj Date : 19-JAN-2015 14:15
Operator : REC Inst ID: gcms-w.i
Smp Info : WG157196-7
Misc Info : WG157196,WG157196-4
Comment : SW846 5035
Method : \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 13:29 Cal File: W1907.D
Als bottle: 8 QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.000	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

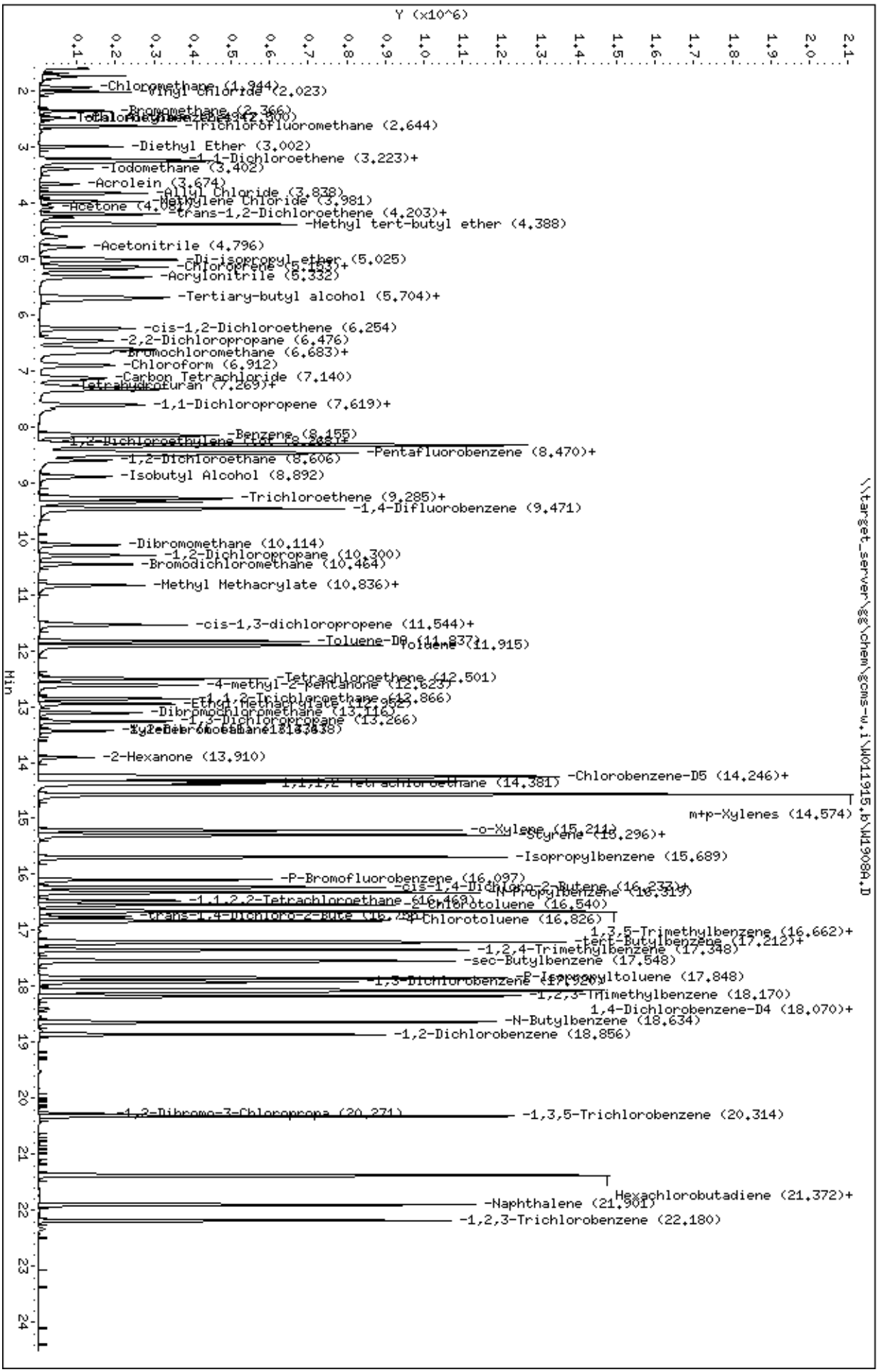
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kgdrywt)	REVIEW COD
1	Dichlorodifluoromethane	85	1.736	1.737	(0.205)	218176	51.8447	51.8	
2	Chloromethane	50	1.943	1.951	(0.230)	198204	49.1446	49.1	
3	Vinyl chloride	62	2.022	2.023	(0.239)	192459	50.3206	50.3	
4	Bromomethane	94	2.365	2.366	(0.279)	96126	47.1227	47.1	
5	Chloroethane	64	2.494	2.495	(0.294)	63503	48.6085	48.6	
6	Trichlorofluoromethane	101	2.644	2.638	(0.312)	253425	54.6242	54.6	
7	Diethyl Ether	59	3.001	3.009	(0.354)	105949	48.3764	48.4	
8	Tertiary-butyl alcohol	59	5.696	5.697	(0.673)	462044	254.830	255	
9	1,1-Dichloroethene	96	3.223	3.224	(0.381)	131222	46.3943	46.4	
10	Carbon Disulfide	76	3.251	3.252	(0.384)	437434	58.6356	58.6	
11	Freon-113	151	3.273	3.274	(0.386)	134723	54.4526	54.4	
12	Iodomethane	142	3.402	3.402	(0.402)	174378	54.6176	54.6	
13	Acrolein	56	3.673	3.674	(0.434)	95026	251.296	251	
14	Methylene Chloride	84	3.981	3.989	(0.470)	155660	43.2938	43.3	
15	Acetone	43	4.081	4.089	(0.482)	52045	57.5197	57.5	
16	Isobutyl Alcohol	43	8.891	8.899	(1.050)	170929	893.535	894	
17	trans-1,2-Dichloroethene	96	4.202	4.210	(0.496)	152777	46.2797	46.3	
18	Allyl Chloride	41	3.838	3.838	(0.453)	166562	51.7270	51.7	
19	Methyl tert-butyl ether	73	4.388	4.389	(0.518)	990900	99.4239	99.4	
20	Acetonitrile	39	4.795	4.796	(0.566)	41325	517.577	518	
21	Di-isopropyl ether	45	5.024	5.025	(0.593)	408685	52.3113	52.3	
22	Chloroprene	53	5.153	5.154	(0.608)	251726	54.9576	55.0	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1908A.D
Report Date: 20-Jan-2015 10:13

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kgdrywt)	REVIEW COD
	23	Propionitrile	54	8.305	8.305	(0.981)	263336	492.103	492	
	24	Methacrylonitrile	41	8.334	8.335	(0.984)	804709	486.007	486	
	25	1,1-Dichloroethane	63	5.203	5.204	(0.614)	274469	49.1096	49.1	
	26	Acrylonitrile	52	5.332	5.332	(0.630)	249894	245.573	246	
	27	Ethyl tertiary-butyl ether	59	5.696	5.697	(0.673)	462044	50.9659	51.0	
	28	Vinyl Acetate	43	5.732	5.740	(0.605)	270289	47.0144	47.0	
	29	cis-1,2-Dichloroethene	96	6.254	6.254	(0.738)	200224	48.7699	48.8	
M	30	1,2-Dichloroethylene (total)	96				353001	95.0497	95.0	
	31	Methyl Methacrylate	41	10.828	10.829	(1.143)	113631	45.2103	45.2	
	32	2,2-Dichloropropane	77	6.475	6.469	(0.765)	237670	49.0007	49.0	
	33	Bromochloromethane	128	6.683	6.683	(0.789)	92495	46.1521	46.2	
	34	Chloroform	83	6.911	6.912	(0.816)	281605	47.1847	47.2	
	35	Carbon Tetrachloride	117	7.140	7.141	(0.754)	210811	51.4256	51.4	
	36	Tetrahydrofuran	42	7.269	7.262	(0.858)	41023	46.0880	46.1	
$	37	Dibromofluoromethane	113	7.340	7.341	(0.867)	141922	48.8375	48.8	
	38	1,1,1-Trichloroethane	97	7.326	7.320	(0.865)	266775	49.3187	49.3	
	39	1,1-Dichloropropene	75	7.619	7.620	(0.805)	239032	52.2942	52.3	
	40	2-Butanone	43	7.690	7.684	(0.908)	64390	45.8599	45.8	
	41	Benzene	78	8.155	8.156	(0.861)	694476	48.6806	48.7	
*	42	Pentafluorobenzene	168	8.470	8.470	(1.000)	673852	50.0000		
	43	Cyclohexane	56	6.625	6.626	(0.782)	256493	55.2440	55.2	
	44	Ethyl Methacrylate	69	12.951	12.952	(1.368)	229675	50.8993	50.9	
$	45	1,2-Dichloroethane-D4	65	8.470	8.470	(1.000)	146212	47.1110	47.1	
	46	Tertiary-amyl methyl ether	73	8.505	8.506	(1.004)	454089	49.5023	49.5	
	47	1,2-Dichloroethane	62	8.605	8.606	(0.909)	194030	45.1577	45.2	
	48	Trichloroethene	95	9.349	9.350	(0.987)	181138	48.0382	48.0	
*	49	1,4-Difluorobenzene	114	9.470	9.471	(1.000)	978053	50.0000		
	50	Dibromomethane	93	10.114	10.114	(1.068)	93806	46.4951	46.5	
	51	1,2-Dichloropropane	63	10.299	10.300	(1.088)	144294	47.8638	47.9	
	52	Bromodichloromethane	83	10.457	10.457	(1.104)	216918	47.5244	47.5	
	53	cis-1,3-dichloropropene	75	11.543	11.544	(1.219)	269904	45.6016	45.6	
	54	1,4-Dioxane	88	10.843	10.843	(1.145)	76853	1086.59	1090	
$	55	Toluene-D8	98	11.836	11.830	(1.250)	616667	49.8474	49.8	
	56	2-Chloroethylvinylether	63	11.515	11.515	(1.216)	44414	41.9804	42.0	
	57	Toluene	92	11.915	11.916	(1.258)	503739	47.9853	48.0	
	58	4-methyl-2-pentanone	43	12.601	12.595	(1.331)	122893	45.3130	45.3	
	59	Tetrachloroethene	164	12.501	12.502	(0.878)	191155	50.9236	50.9	
	60	trans-1,3-Dichloropropene	75	11.543	11.544	(1.219)	269904	45.6016	45.6	
	61	1,1,2-Trichloroethane	83	12.866	12.866	(1.359)	121094	46.4089	46.4	
	62	Dibromochloromethane	129	13.116	13.117	(0.921)	181290	47.4745	47.5	
	63	1,3-Dichloropropane	76	13.266	13.267	(0.931)	270412	48.1804	48.2	
	64	1,2-Dibromoethane	107	13.437	13.438	(1.419)	158848	45.7329	45.7	
	65	2-Hexanone	43	13.909	13.903	(0.976)	88445	45.1279	45.1	
*	66	Chlorobenzene-D5	117	14.245	14.239	(1.000)	863568	50.0000		
	67	Chlorobenzene	112	14.267	14.267	(1.002)	579000	47.2483	47.2	
	152	1-Chlorohexane	91	14.288	14.289	(1.687)	283420	52.2260	52.2	
	68	Ethylbenzene	106	14.338	14.339	(1.007)	324129	49.3195	49.3	
	69	1,1,1,2-Tetrachloroethane	131	14.381	14.382	(1.010)	198041	48.9204	48.9	
M	70	Xylenes (total)	106				1169829	146.790	147	
	71	m+p-Xylenes	106	14.574	14.575	(1.023)	784665	98.1428	98.1	
	72	o-Xylene	106	15.210	15.211	(1.068)	385164	48.6471	48.6	
	73	Styrene	104	15.296	15.297	(1.074)	629393	50.5348	50.5	
	74	Bromoform	173	15.303	15.304	(1.074)	124667	46.3177	46.3	
	75	Isopropylbenzene	105	15.689	15.690	(0.869)	993841	51.0675	51.1	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1908A.D
Report Date: 20-Jan-2015 10:13

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kgdrywt)	REVIEW COD
$	76	P-Bromofluorobenzene	95	16.096	16.090	(1.700)	236380	46.6986	46.7	
	77	cis-1,4-Dichloro-2-Butene	53	16.239	16.239	(0.899)	64093	48.2749	48.3	
	78	trans-1,4-Dichloro-2-Butene	53	16.754	16.754	(0.928)	53095	47.4145	47.4	
	79	Bromobenzene	156	16.232	16.226	(0.899)	262858	49.0163	49.0	
	80	N-Propylbenzene	91	16.318	16.319	(0.903)	1104513	50.6075	50.6	
	81	1,1,2,2-Tetrachloroethane	83	16.468	16.469	(0.912)	202516	45.5037	45.5	
	82	1,3,5-Trimethylbenzene	105	16.661	16.662	(0.922)	846687	49.5979	49.6	
	83	2-Chlorotoluene	91	16.540	16.540	(0.916)	668988	48.0013	48.0	
	84	1,2,3-Trichloropropane	75	16.654	16.655	(0.922)	173199	46.8443	46.8	
	85	4-Chlorotoluene	91	16.826	16.826	(0.932)	693417	48.2975	48.3	
	86	tert-Butylbenzene	119	17.204	17.204	(0.953)	892946	50.8146	50.8	
	87	Pentachloroethane	117	17.219	17.219	(0.953)	173412	52.1456	52.1	
	88	1,2,4-Trimethylbenzene	105	17.347	17.347	(0.960)	878725	50.5234	50.5	
	89	P-Isopropyltoluene	119	17.848	17.849	(0.988)	1030094	52.3894	52.4	
	90	1,3-Dichlorobenzene	146	17.919	17.920	(0.992)	519187	46.1771	46.2	
*	91	1,4-Dichlorobenzene-D4	152	18.062	18.070	(1.000)	517849	50.0000		
	92	1,4-Dichlorobenzene	146	18.091	18.092	(1.002)	522900	47.7057	47.7	
	93	N-Butylbenzene	91	18.634	18.635	(1.032)	831007	50.8644	50.9	
	94	sec-Butylbenzene	105	17.547	17.548	(0.972)	1139969	50.7974	50.8	
	95	1,2-Dichlorobenzene	146	18.856	18.856	(1.044)	503048	46.3117	46.3	
	96	1,2-Dibromo-3-Chloropropane	75	20.271	20.265	(1.122)	51189	49.5124	49.5	
	97	1,3,5-Trichlorobenzene	180	20.321	20.315	(2.399)	511004	46.7315	46.7	
	98	Hexachlorobutadiene	225	21.364	21.365	(1.183)	220167	51.5983	51.6	
	99	1,2,4-Trichlorobenzene	180	21.379	21.380	(1.184)	406792	47.1315	47.1	
	100	1,2,3-Trimethylbenzene	105	18.169	18.170	(2.145)	978496	49.2872	49.3	
	101	Naphthalene	128	21.901	21.894	(1.213)	1040770	47.9408	47.9	
	102	1,2,3-Trichlorobenzene	180	22.179	22.180	(1.228)	397654	46.4933	46.5	
	103	Methyl Acetate	43	4.266	4.267	(0.504)	109155	54.1598	54.2	
	104	Methylcyclohexane	83	9.284	9.278	(1.096)	361677	56.3708	56.4	
M	153	Total Alkylbenzenes	100				6723941	355.595	356	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Date : 19-JAN-2015 14:15
Client ID: Independent Source
Sample Info: WG157196-7
Column phase: RTX-VMS
Instrument: gcms-w.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-w.i\W011915.b\W1908A.D
Y (x10^6)
Min
-Chloromethane (1.944)
-Vinyl Chloride (2.023)
-Bromomethane (2.366)
-Trichlorofluoromethane (2.644)
-Diethyl Ether (3.002)
-1,1-Dichloroethene (3.223)+
-Iodomethane (3.402)
-Acrolein (3.674)
-Allyl Chloride (3.838)
-Methylene Chloride (3.981)
-trans-1,2-Dichloroethene (4.203)+
-Methyl tert-butyl ether (4.388)
-Acetonitrile (4.796)
-Di-isopropyl ether (5.025)
-Acrylonitrile (5.332)
-Tertiary-butyl alcohol (5.704)+
-cis-1,2-Dichloroethene (6.254)
-2,2-Dichloropropane (6.476)
-Chloroform (6.912)
-Carbon Tetrachloride (7.140)
-1,1-Dichloropropene (7.619)+
-Benzene (8.155)
-Pentafluorobenzene (8.470)+
-1,2-Dichloroethane (8.606)
-Isobutyl Alcohol (8.892)
-Trichloroethene (9.285)+
-1,4-Difluorobenzene (9.471)
-Dibromomethane (10.114)
-1,2-Dichloropropane (10.300)
-Bromodichloromethane (10.464)
-Methyl Methacrylate (10.836)+
-cis-1,3-dichloropropene (11.544)+
-Toluene-D8 (11.837)
-Toluene (11.915)
-Tetrachloroethene (12.501)
-4-methyl-2-pentanone (12.623)
-Ethyl Methacrylate (12.962)
-Dibromochloromethane (13.116)
-1,3-Dichloropropane (13.266)
-2-Hexanone (13.910)
-Chlorobenzene-D5 (14.246)+
1,1,1,2-Tetrachloroethane (14.381)
m+p-Xylenes (14.574)
-o-Xylene (15.214)
-Styrene (15.296)+
-Isopropylbenzene (15.689)
-P-Bromofluorobenzene (16.097)
-1,1,2,2-Tetrachloroethane (16.469)
-4-Chlorotoluene (16.826)
1,3,5-Trimethylbenzene (16.662)+
-tert-Butylbenzene (17.212)+
-1,2,4-Trimethylbenzene (17.348)
-sec-Butylbenzene (17.548)
-P-Isopropyltoluene (17.848)
-1,3-Dichlorobenzene (17.926)
-1,2,3-Trimethylbenzene (18.170)
1,4-Dichlorobenzene-D4 (18.070)+
-N-Butylbenzene (18.634)
-1,2-Dichlorobenzene (18.856)
-1,2-Dibromo-3-Chloropropa (20.271)
-1,3,5-Trichlorobenzene (20.314)
Hexachlorobutadiene (21.372)+
-Naphthalene (21.501)
-1,2,3-Trichlorobenzene (22.180)

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\WB111.D

Date : 19-JAN-2015 09:07

Client ID:

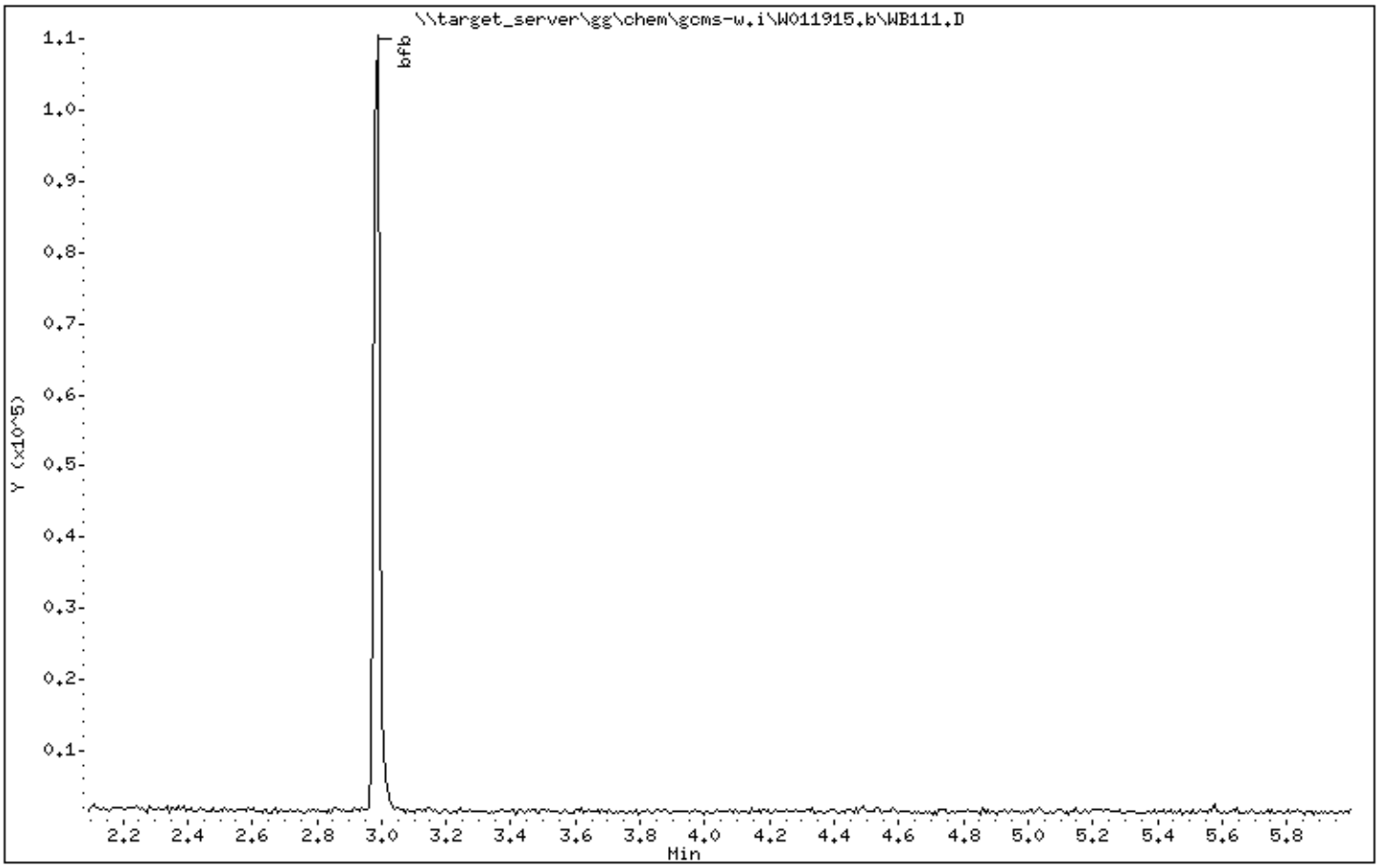
Instrument: gcms-w.i

Sample Info: WG157196-10,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\WB111.D

Date : 19-JAN-2015 09:07

Client ID:

Instrument: gcms-w.i

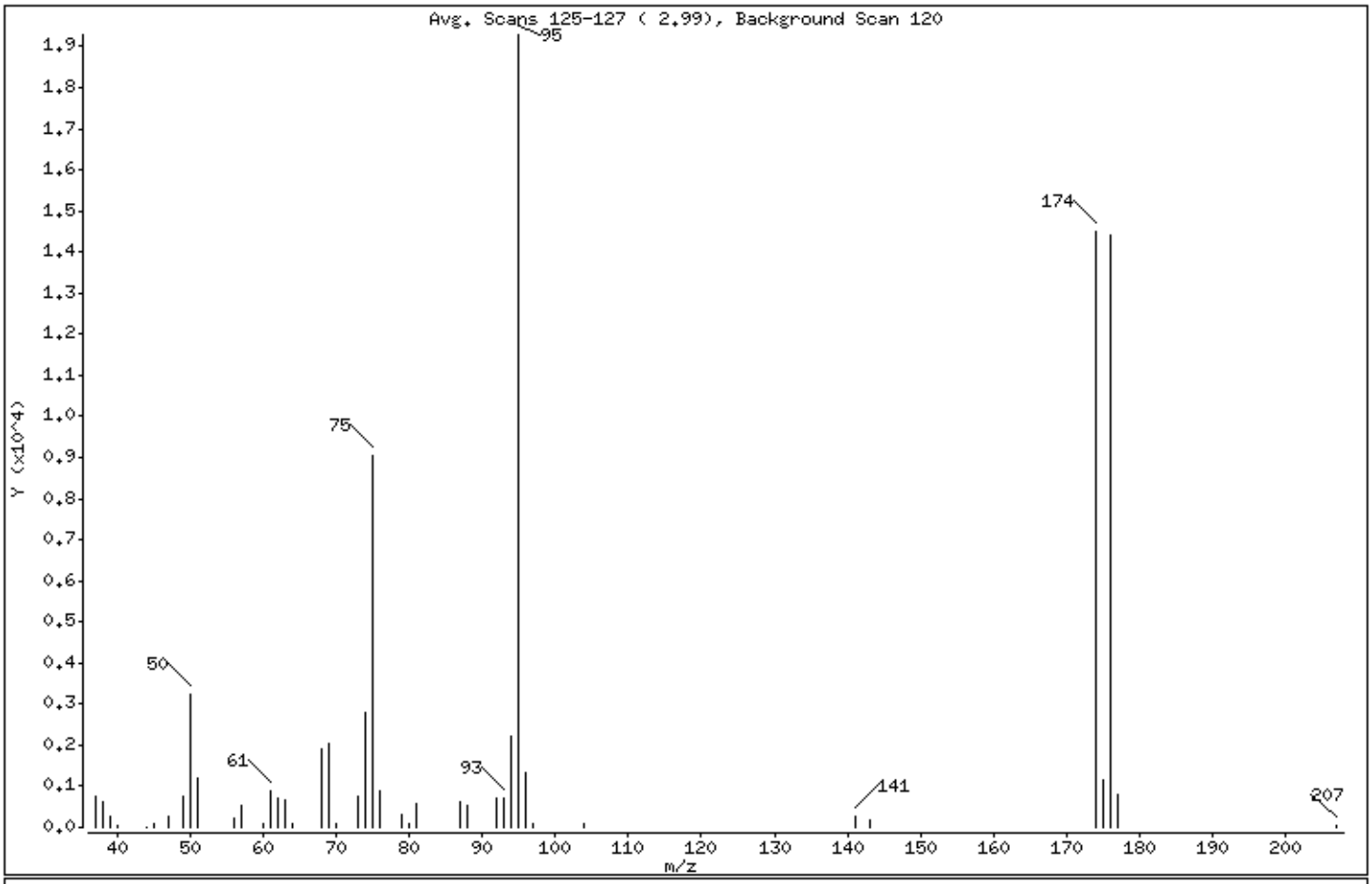
Sample Info: WG157196-10,SI0230

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.84
75	30.00 - 60.00% of mass 95	46.89
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.13
175	5.00 - 9.00% of mass 174	5.99 (7.98)
176	95.00 - 101.00% of mass 174	74.62 (99.32)
177	5.00 - 9.00% of mass 176	4.18 (5.61)

Date : 19-JAN-2015 09:07

Client ID: Instrument: gcms-w.i

Sample Info: WG157196-10,SI0230

Operator: REC

Column phase: RTX-VMS Column diameter: 0.18

Data File: WB111.D
Spectrum: Avg. Scans 125-127 (2.99), Background Scan 120
Location of Maximum: 95.00
Number of points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	732	57.00	547	75.00	9045	96.00	1341
38.00	621	60.00	85	76.00	874	97.00	75
39.00	253	61.00	901	79.00	298	104.00	69
40.00	40	62.00	700	80.00	83	141.00	261
44.00	2	63.00	657	81.00	572	143.00	178
45.00	74	64.00	78	87.00	607	174.00	14492
47.00	255	68.00	1909	88.00	544	175.00	1156
49.00	764	69.00	2038	92.00	697	176.00	14393
50.00	3248	70.00	71	93.00	728	177.00	807
51.00	1218	73.00	738	94.00	2214	207.00	48
56.00	225	74.00	2806	95.00	19288		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG157196-9
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: W1910.D

Sample Date:
Received Date:
Extract Date: 19-JAN-15
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG157196

Analysis Date: 19-JAN-15
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 20-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	5.0	ug/Kgdrywt	1	10	10.	0.92	5.0
Trichlorofluoromethane	U	5.0	ug/Kgdrywt	1	10	10.	0.91	5.0
Freon-113	U	2.5	ug/Kgdrywt	1	5	5.0	0.90	2.5
Methyl Acetate	U	3.0	ug/Kgdrywt	1	5	5.0	2.7	3.0
Methyl tert-butyl Ether	U	2.5	ug/Kgdrywt	1	5	5.0	1.1	2.5
Cyclohexane	U	2.5	ug/Kgdrywt	1	5	5.0	1.4	2.5
Methylcyclohexane	U	2.5	ug/Kgdrywt	1	5	5.0	0.96	2.5
1,2-Dibromoethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.2	2.5
Isopropylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.92	2.5
Chloromethane	U	5.0	ug/Kgdrywt	1	10	10.	1.4	5.0
Bromomethane	U	5.0	ug/Kgdrywt	1	10	10.	1.1	5.0
Vinyl Chloride	U	5.0	ug/Kgdrywt	1	10	10.	0.87	5.0
Chloroethane	U	5.0	ug/Kgdrywt	1	10	10.	1.3	5.0
Methylene Chloride	U	12	ug/Kgdrywt	1	25	25.	7.9	12.
Acetone	U	12	ug/Kgdrywt	1	25	25.	5.1	12.
Carbon Disulfide	U	2.5	ug/Kgdrywt	1	5	5.0	0.78	2.5
1,1-Dichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.93	2.5
1,1-Dichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.7	2.5
cis-1,2-Dichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.91	2.5
trans-1,2-Dichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.71	2.5
Chloroform	U	2.5	ug/Kgdrywt	1	5	5.0	0.35	2.5
1,2-Dichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.0	2.5
2-Butanone	U	12	ug/Kgdrywt	1	25	25.	5.9	12.
1,1,1-Trichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.42	2.5
Carbon Tetrachloride	U	2.5	ug/Kgdrywt	1	5	5.0	1.3	2.5
Bromodichloromethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.60	2.5
1,2-Dichloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	1.4	2.5
cis-1,3-Dichloropropene	U	2.5	ug/Kgdrywt	1	5	5.0	0.72	2.5
Trichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.59	2.5
Dibromochloromethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.0	2.5
1,1,2-Trichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.97	2.5
Benzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.92	2.5
trans-1,3-Dichloropropene	U	2.5	ug/Kgdrywt	1	5	5.0	0.86	2.5
Bromoform	U	2.5	ug/Kgdrywt	1	5	5.0	0.70	2.5

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Report of Analytical Results

Client:
Lab ID: WG157196-9
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: W1910.D

Sample Date:
Received Date:
Extract Date: 19-JAN-15
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG157196

Analysis Date: 19-JAN-15
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 20-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
4-Methyl-2-Pentanone	U	12	ug/Kgdrywt	1	25	25.	5.9	12.
2-Hexanone	U	12	ug/Kgdrywt	1	25	25.	4.8	12.
Tetrachloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.84	2.5
Toluene	U	2.5	ug/Kgdrywt	1	5	5.0	1.4	2.5
Chlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.51	2.5
Ethylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.65	2.5
Styrene	U	2.5	ug/Kgdrywt	1	5	5.0	0.51	2.5
m+p-Xylenes	U	5.0	ug/Kgdrywt	1	10	10.	1.7	5.0
o-Xylene	U	2.5	ug/Kgdrywt	1	5	5.0	1.3	2.5
Xylenes (Total)	U	7.5	ug/Kgdrywt	1	15	15.	1.3	7.5
1,3-Dichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.62	2.5
1,4-Dichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.44	2.5
1,2-Dichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.78	2.5
1,2-Dibromo-3-Chloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	1.5	2.5
1,2,4-Trichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.79	2.5
1,2,3-Trichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.76	2.5
Dibromofluoromethane		98.3	%					
1,2-Dichloroethane-d4		96.8	%					
Toluene-d8		101.	%					
P-Bromofluorobenzene		93.1	%					

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Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1910.D
Report Date: 20-Jan-2015 10:12

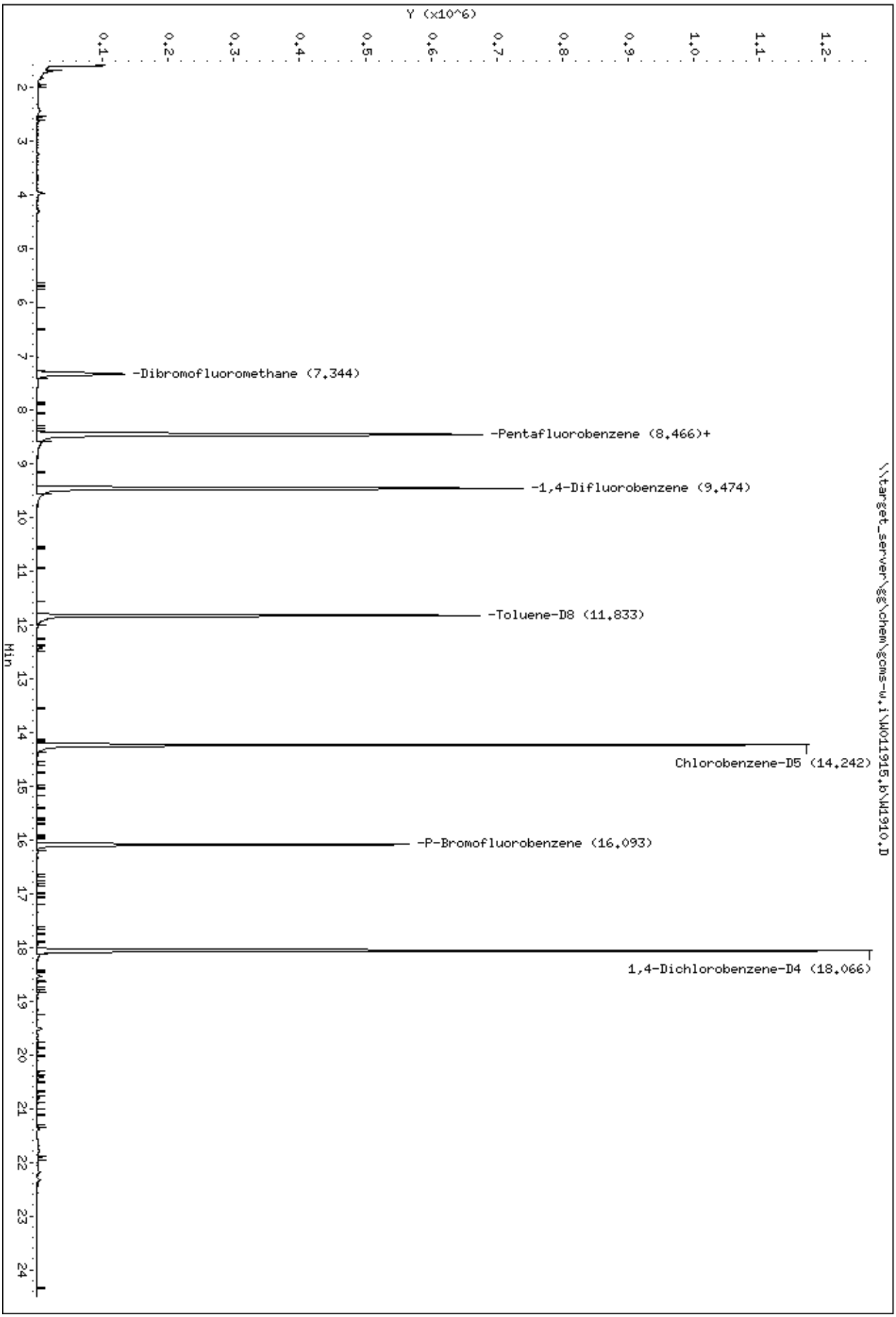
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1910.D
Lab Smp Id: WG157196-9 Client Smp ID: WG157196-Blank
Inj Date : 19-JAN-2015 15:38
Operator : REC Inst ID: gcms-w.i
Smp Info : WG157196-9,SI0230
Misc Info : WG157196,WG157196-4,SI0230-1
Comment : SW846 5035
Method : \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 13:29 Cal File: W1907.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.000	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 37 Dibromofluoromethane	113	7.343	7.341	(0.867)	134039	49.1417	49.1	
* 42 Pentafluorobenzene	168	8.473	8.470	(1.000)	632484	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.465	8.470	(0.999)	141019	48.4097	48.4	
* 49 1,4-Difluorobenzene	114	9.473	9.471	(1.000)	903445	50.0000		
$ 55 Toluene-D8	98	11.832	11.830	(1.249)	579241	50.6888	50.7	
* 66 Chlorobenzene-D5	117	14.241	14.239	(1.000)	825016	50.0000		
$ 76 P-Bromofluorobenzene	95	16.092	16.090	(1.699)	217593	46.5371	46.5	
* 91 1,4-Dichlorobenzene-D4	152	18.065	18.070	(1.000)	492440	50.0000		


Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1910.D
Date : 19-JAN-2015 15:38
Client ID: WG157196-Blank
Sample Info: WG157196-9,SI0230
Instrument: gcms-w.i
\\target_server\gg\chem\gcms-w.i\W011915.b\W1910.D
Y (x10^6)
Min
-Dibromofluoromethane (7.344)
-Pentafluorobenzene (8.466)+
-1,4-Difluorobenzene (9.474)
-Toluene-D8 (11.833)
Chlorobenzene-D5 (14.242)
-P-Bromofluorobenzene (16.093)
1,4-Dichlorobenzene-D4 (18.066)

LCS Recovery Report

Client:
Lab ID: WG157196-8
Client ID: LCS
Project:
SDG: SI0230
LCS File ID: W1908.D

Sample Date:
Received Date:
Extract Date: 19-JAN-15
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG157196

Analysis Date: 19-JAN-15
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 20-JAN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	104.	50.0	51.8	ug/Kg	35-135
Trichlorofluoromethane	109.	50.0	54.6	ug/Kg	25-185
Freon-113	109.	50.0	54.4	ug/Kg	67-135
Methyl Acetate	108.	50.0	54.2	ug/Kg	72-133
Methyl tert-butyl Ether	99.4	100.	99.4	ug/Kg	81-125
Cyclohexane	110.	50.0	55.2	ug/Kg	75-128
Methylcyclohexane	113.	50.0	56.4	ug/Kg	71-127
1,2-Dibromoethane	91.4	50.0	45.7	ug/Kg	70-125
Isopropylbenzene	102.	50.0	51.1	ug/Kg	75-130
Chloromethane	98.2	50.0	49.1	ug/Kg	50-130
Bromomethane	94.2	50.0	47.1	ug/Kg	30-160
Vinyl Chloride	101.	50.0	50.3	ug/Kg	60-125
Chloroethane	97.2	50.0	48.6	ug/Kg	40-155
Methylene Chloride	86.6	50.0	43.3	ug/Kg	55-140
Acetone	115.	50.0	57.5	ug/Kg	20-160
Carbon Disulfide	117.	50.0	58.6	ug/Kg	45-160
1,1-Dichloroethene	92.8	50.0	46.4	ug/Kg	65-135
1,1-Dichloroethane	98.2	50.0	49.1	ug/Kg	75-125
cis-1,2-Dichloroethene	97.6	50.0	48.8	ug/Kg	65-125
trans-1,2-Dichloroethene	92.6	50.0	46.3	ug/Kg	65-135
Chloroform	94.4	50.0	47.2	ug/Kg	70-125
1,2-Dichloroethane	90.4	50.0	45.2	ug/Kg	70-135
2-Butanone	91.6	50.0	45.8	ug/Kg	30-160
1,1,1-Trichloroethane	98.6	50.0	49.3	ug/Kg	70-135
Carbon Tetrachloride	103.	50.0	51.4	ug/Kg	65-135
Bromodichloromethane	95.0	50.0	47.5	ug/Kg	70-130
1,2-Dichloropropane	95.8	50.0	47.9	ug/Kg	70-120
cis-1,3-Dichloropropene	91.2	50.0	45.6	ug/Kg	70-125
Trichloroethene	96.0	50.0	48.0	ug/Kg	75-125
Dibromochloromethane	95.0	50.0	47.5	ug/Kg	65-130
1,1,2-Trichloroethane	92.8	50.0	46.4	ug/Kg	60-125
Benzene	97.4	50.0	48.7	ug/Kg	75-125
trans-1,3-Dichloropropene	91.2	50.0	45.6	ug/Kg	65-125
Bromoform	92.6	50.0	46.3	ug/Kg	55-135
4-Methyl-2-Pentanone	90.6	50.0	45.3	ug/Kg	45-145

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LCS Recovery Report

Client:
Lab ID: WG157196-8
Client ID: LCS
Project:
SDG: SI0230
LCS File ID: W1908.D

Sample Date:
Received Date:
Extract Date: 19-JAN-15
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG157196

Analysis Date: 19-JAN-15
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 20-JAN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
2-Hexanone	90.2	50.0	45.1	ug/Kg	45-145
Tetrachloroethene	102.	50.0	50.9	ug/Kg	65-140
1,1,2,2-Tetrachloroethane	91.0	50.0	45.5	ug/Kg	55-130
Toluene	96.0	50.0	48.0	ug/Kg	70-125
Chlorobenzene	94.4	50.0	47.2	ug/Kg	75-125
Ethylbenzene	98.6	50.0	49.3	ug/Kg	75-125
Styrene	101.	50.0	50.5	ug/Kg	75-125
m+p-Xylenes	98.1	100.	98.1	ug/Kg	80-125
o-Xylene	97.2	50.0	48.6	ug/Kg	75-125
Xylenes (Total)	98.0	150.	147.	ug/Kg	81-114
1,3-Dichlorobenzene	92.4	50.0	46.2	ug/Kg	70-125
1,4-Dichlorobenzene	95.4	50.0	47.7	ug/Kg	70-125
1,2-Dichlorobenzene	92.6	50.0	46.3	ug/Kg	75-120
1,2-Dibromo-3-Chloropropane	99.0	50.0	49.5	ug/Kg	40-135
1,2,4-Trichlorobenzene	94.2	50.0	47.1	ug/Kg	65-130
1,2,3-Trichlorobenzene	93.0	50.0	46.5	ug/Kg	60-135
Dibromofluoromethane	97.7				64-130
1,2-Dichloroethane-d4	94.2				58-134
Toluene-d8	99.7				85-115
P-Bromofluorobenzene	93.4				85-120

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Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1908.D
Report Date: 20-Jan-2015 10:10

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Data file : \\target_server\gg\chem\gcms-w.i\W011915.b\W1908.D
Lab Smp Id: WG157196-8 Client Smp ID: WG157196-LCS
Inj Date : 19-JAN-2015 14:15
Operator : REC Inst ID: gcms-w.i
Smp Info : WG157196-8,SI0230
Misc Info : WG157196,WG157196-4,SI0230-1
Comment : SW846 5035
Method : \\target_server\gg\chem\gcms-w.i\W011915.b\W826S16.m
Meth Date : 19-Jan-2015 14:02 rcrocker Quant Type: ISTD
Cal Date : 19-JAN-2015 13:29 Cal File: W1907.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% Moisture
Vt	5.000	Volume of DI Water (mL)
Ws	5.000	Weight of Sample (g)
Cpnd Variable		Local Compound Variable

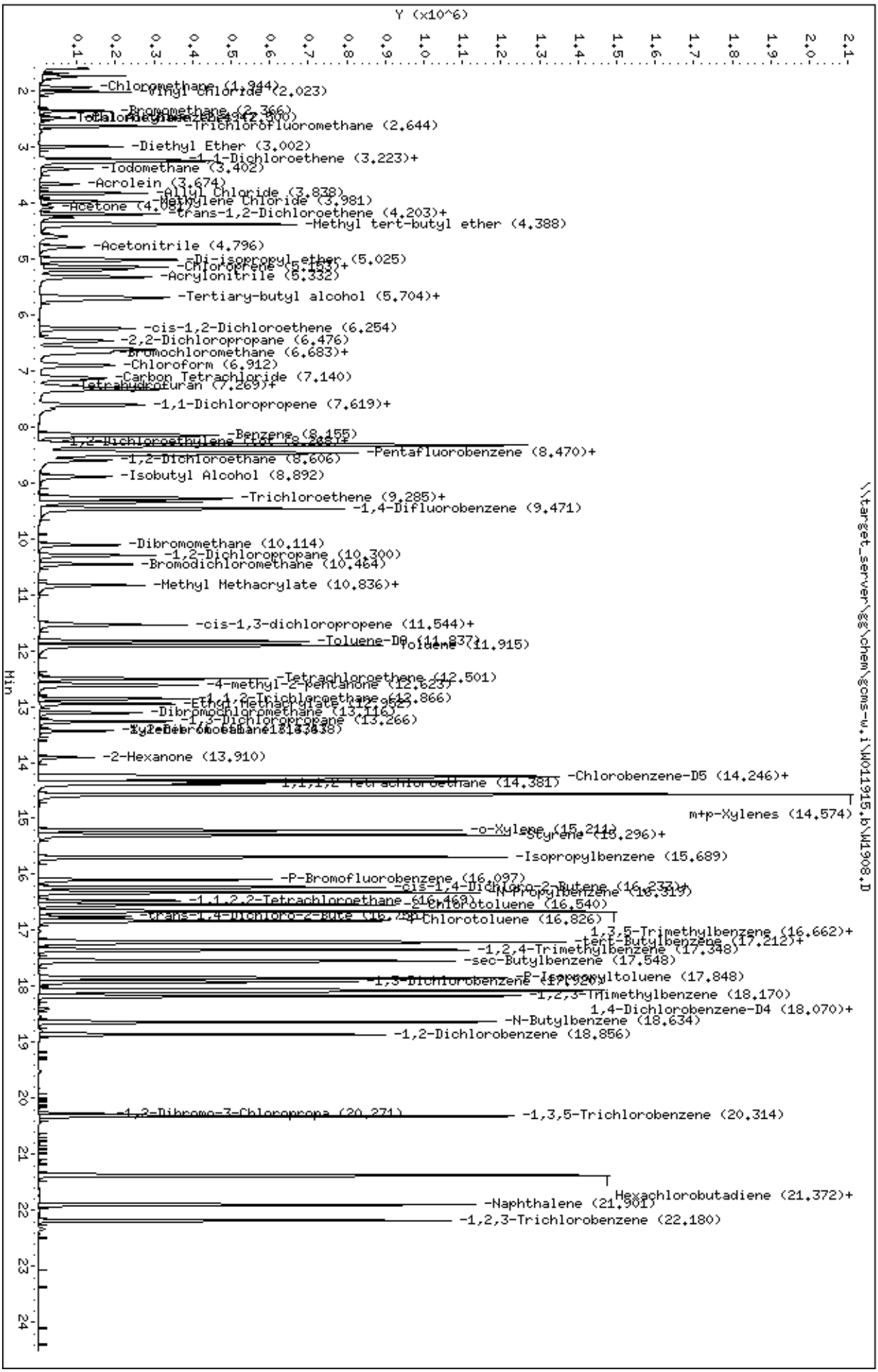
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kgdrywt)	REVIEW COD
1	Dichlorodifluoromethane	85	1.736	1.737	(0.205)	218176	51.8447	51.8	
2	Chloromethane	50	1.943	1.951	(0.230)	198204	49.1446	49.1	
3	Vinyl chloride	62	2.022	2.023	(0.239)	192459	50.3206	50.3	
4	Bromomethane	94	2.365	2.366	(0.279)	96126	47.1227	47.1	
5	Chloroethane	64	2.494	2.495	(0.294)	63503	48.6085	48.6	
6	Trichlorofluoromethane	101	2.644	2.638	(0.312)	253425	54.6242	54.6	
7	Diethyl Ether	59	3.001	3.009	(0.354)	105949	48.3764	48.4	
8	Tertiary-butyl alcohol	59	5.696	5.697	(0.673)	462044	254.830	255	
9	1,1-Dichloroethene	96	3.223	3.224	(0.381)	131222	46.3943	46.4	
10	Carbon Disulfide	76	3.251	3.252	(0.384)	437434	58.6356	58.6	
11	Freon-113	151	3.273	3.274	(0.386)	134723	54.4526	54.4	
12	Iodomethane	142	3.402	3.402	(0.402)	174378	54.6176	54.6	
13	Acrolein	56	3.673	3.674	(0.434)	95026	251.296	251	
14	Methylene Chloride	84	3.981	3.989	(0.470)	155660	43.2938	43.3	
15	Acetone	43	4.081	4.089	(0.482)	52045	57.5197	57.5	
16	Isobutyl Alcohol	43	8.891	8.899	(1.050)	170929	893.535	894	
17	trans-1,2-Dichloroethene	96	4.202	4.210	(0.496)	152777	46.2797	46.3	
18	Allyl Chloride	41	3.838	3.838	(0.453)	166562	51.7270	51.7	
19	Methyl tert-butyl ether	73	4.388	4.389	(0.518)	990900	99.4239	99.4	
20	Acetonitrile	39	4.795	4.796	(0.566)	41325	517.577	518	
21	Di-isopropyl ether	45	5.024	5.025	(0.593)	408685	52.3113	52.3	
22	Chloroprene	53	5.153	5.154	(0.608)	251726	54.9576	55.0	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1908.D
Report Date: 20-Jan-2015 10:10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kgdrywt)	REVIEW COD
	23	Propionitrile	54	8.305	8.305	(0.981)	263336	492.103	492	
	24	Methacrylonitrile	41	8.334	8.335	(0.984)	804709	486.007	486	
	25	1,1-Dichloroethane	63	5.203	5.204	(0.614)	274469	49.1096	49.1	
	26	Acrylonitrile	52	5.332	5.332	(0.630)	249894	245.573	246	
	27	Ethyl tertiary-butyl ether	59	5.696	5.697	(0.673)	462044	50.9659	51.0	
	28	Vinyl Acetate	43	5.732	5.740	(0.605)	270289	47.0144	47.0	
	29	cis-1,2-Dichloroethene	96	6.254	6.254	(0.738)	200224	48.7699	48.8	
M	30	1,2-Dichloroethylene (total)	96				353001	95.0497	95.0	
	31	Methyl Methacrylate	41	10.828	10.829	(1.143)	113631	45.2103	45.2	
	32	2,2-Dichloropropane	77	6.475	6.469	(0.765)	237670	49.0007	49.0	
	33	Bromochloromethane	128	6.683	6.683	(0.789)	92495	46.1521	46.2	
	34	Chloroform	83	6.911	6.912	(0.816)	281605	47.1847	47.2	
	35	Carbon Tetrachloride	117	7.140	7.141	(0.754)	210811	51.4256	51.4	
	36	Tetrahydrofuran	42	7.269	7.262	(0.858)	41023	46.0880	46.1	
$	37	Dibromofluoromethane	113	7.340	7.341	(0.867)	141922	48.8375	48.8	
	38	1,1,1-Trichloroethane	97	7.326	7.320	(0.865)	266775	49.3187	49.3	
	39	1,1-Dichloropropene	75	7.619	7.620	(0.805)	239032	52.2942	52.3	
	40	2-Butanone	43	7.690	7.684	(0.908)	64390	45.8599	45.8	
	41	Benzene	78	8.155	8.156	(0.861)	694476	48.6806	48.7	
*	42	Pentafluorobenzene	168	8.470	8.470	(1.000)	673852	50.0000		
	43	Cyclohexane	56	6.625	6.626	(0.782)	256493	55.2440	55.2	
	44	Ethyl Methacrylate	69	12.951	12.952	(1.368)	229675	50.8993	50.9	
$	45	1,2-Dichloroethane-D4	65	8.470	8.470	(1.000)	146212	47.1110	47.1	
	46	Tertiary-amyl methyl ether	73	8.505	8.506	(1.004)	454089	49.5023	49.5	
	47	1,2-Dichloroethane	62	8.605	8.606	(0.909)	194030	45.1577	45.2	
	48	Trichloroethene	95	9.349	9.350	(0.987)	181138	48.0382	48.0	
*	49	1,4-Difluorobenzene	114	9.470	9.471	(1.000)	978053	50.0000		
	50	Dibromomethane	93	10.114	10.114	(1.068)	93806	46.4951	46.5	
	51	1,2-Dichloropropane	63	10.299	10.300	(1.088)	144294	47.8638	47.9	
	52	Bromodichloromethane	83	10.457	10.457	(1.104)	216918	47.5244	47.5	
	53	cis-1,3-dichloropropene	75	11.543	11.544	(1.219)	269904	45.6016	45.6	
	54	1,4-Dioxane	88	10.843	10.843	(1.145)	76853	1086.59	1090	
$	55	Toluene-D8	98	11.836	11.830	(1.250)	616667	49.8474	49.8	
	56	2-Chloroethylvinylether	63	11.515	11.515	(1.216)	44414	41.9804	42.0	
	57	Toluene	92	11.915	11.916	(1.258)	503739	47.9853	48.0	
	58	4-methyl-2-pentanone	43	12.601	12.595	(1.331)	122893	45.3130	45.3	
	59	Tetrachloroethene	164	12.501	12.502	(0.878)	191155	50.9236	50.9	
	60	trans-1,3-Dichloropropene	75	11.543	11.544	(1.219)	269904	45.6016	45.6	
	61	1,1,2-Trichloroethane	83	12.866	12.866	(1.359)	121094	46.4089	46.4	
	62	Dibromochloromethane	129	13.116	13.117	(0.921)	181290	47.4745	47.5	
	63	1,3-Dichloropropane	76	13.266	13.267	(0.931)	270412	48.1804	48.2	
	64	1,2-Dibromoethane	107	13.437	13.438	(1.419)	158848	45.7329	45.7	
	65	2-Hexanone	43	13.909	13.903	(0.976)	88445	45.1279	45.1	
*	66	Chlorobenzene-D5	117	14.245	14.239	(1.000)	863568	50.0000		
	67	Chlorobenzene	112	14.267	14.267	(1.002)	579000	47.2483	47.2	
	152	1-Chlorohexane	91	14.288	14.289	(1.687)	283420	52.2260	52.2	
	68	Ethylbenzene	106	14.338	14.339	(1.007)	324129	49.3195	49.3	
	69	1,1,1,2-Tetrachloroethane	131	14.381	14.382	(1.010)	198041	48.9204	48.9	
M	70	Xylenes (total)	106				1169829	146.790	147	
	71	m+p-Xylenes	106	14.574	14.575	(1.023)	784665	98.1428	98.1	
	72	o-Xylene	106	15.210	15.211	(1.068)	385164	48.6471	48.6	
	73	Styrene	104	15.296	15.297	(1.074)	629393	50.5348	50.5	
	74	Bromoform	173	15.303	15.304	(1.074)	124667	46.3177	46.3	
	75	Isopropylbenzene	105	15.689	15.690	(0.869)	993841	51.0675	51.1	

Data File: \\target_server\gg\chem\gcms-w.i\W011915.b\W1908.D
Report Date: 20-Jan-2015 10:10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kgdrywt)	REVIEW COD
$	76	P-Bromofluorobenzene	95	16.096	16.090	(1.700)	236380	46.6986	46.7	
	77	cis-1,4-Dichloro-2-Butene	53	16.239	16.239	(0.899)	64093	48.2749	48.3	
	78	trans-1,4-Dichloro-2-Butene	53	16.754	16.754	(0.928)	53095	47.4145	47.4	
	79	Bromobenzene	156	16.232	16.226	(0.899)	262858	49.0163	49.0	
	80	N-Propylbenzene	91	16.318	16.319	(0.903)	1104513	50.6075	50.6	
	81	1,1,2,2-Tetrachloroethane	83	16.468	16.469	(0.912)	202516	45.5037	45.5	
	82	1,3,5-Trimethylbenzene	105	16.661	16.662	(0.922)	846687	49.5979	49.6	
	83	2-Chlorotoluene	91	16.540	16.540	(0.916)	668988	48.0013	48.0	
	84	1,2,3-Trichloropropane	75	16.654	16.655	(0.922)	173199	46.8443	46.8	
	85	4-Chlorotoluene	91	16.826	16.826	(0.932)	693417	48.2975	48.3	
	86	tert-Butylbenzene	119	17.204	17.204	(0.953)	892946	50.8146	50.8	
	87	Pentachloroethane	117	17.219	17.219	(0.953)	173412	52.1456	52.1	
	88	1,2,4-Trimethylbenzene	105	17.347	17.347	(0.960)	878725	50.5234	50.5	
	89	P-Isopropyltoluene	119	17.848	17.849	(0.988)	1030094	52.3894	52.4	
	90	1,3-Dichlorobenzene	146	17.919	17.920	(0.992)	519187	46.1771	46.2	
*	91	1,4-Dichlorobenzene-D4	152	18.062	18.070	(1.000)	517849	50.0000		
	92	1,4-Dichlorobenzene	146	18.091	18.092	(1.002)	522900	47.7057	47.7	
	93	N-Butylbenzene	91	18.634	18.635	(1.032)	831007	50.8644	50.9	
	94	sec-Butylbenzene	105	17.547	17.548	(0.972)	1139969	50.7974	50.8	
	95	1,2-Dichlorobenzene	146	18.856	18.856	(1.044)	503048	46.3117	46.3	
	96	1,2-Dibromo-3-Chloropropane	75	20.271	20.265	(1.122)	51189	49.5124	49.5	
	97	1,3,5-Trichlorobenzene	180	20.321	20.315	(2.399)	511004	46.7315	46.7	
	98	Hexachlorobutadiene	225	21.364	21.365	(1.183)	220167	51.5983	51.6	
	99	1,2,4-Trichlorobenzene	180	21.379	21.380	(1.184)	406792	47.1315	47.1	
	100	1,2,3-Trimethylbenzene	105	18.169	18.170	(2.145)	978496	49.2872	49.3	
	101	Naphthalene	128	21.901	21.894	(1.213)	1040770	47.9408	47.9	
	102	1,2,3-Trichlorobenzene	180	22.179	22.180	(1.228)	397654	46.4933	46.5	
	103	Methyl Acetate	43	4.266	4.267	(0.504)	109155	54.1598	54.2	
	104	Methylcyclohexane	83	9.284	9.278	(1.096)	361677	56.3708	56.4	
M	153	Total Alkylbenzenes	100				6723941	355.595	356	


Data File: \\target_server\gg\chem\gcms-w.i\WO11915.b\W1908.D
Date : 19-JAN-2015 14:15
Client ID: WG157196-LCS
Sample Info: WG157196-8,SI0230
Column phase: RTX-VMS
Instrument: gcms-w.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-w.i\WO11915.b\W1908.D
Y (x10^6)
Min
-Chloromethane (1.944)
-Vinyl Chloride (2.023)
-Bromomethane (2.366)
-Trichlorofluoromethane (2.644)
-Diethyl Ether (3.002)
-1,1-Dichloroethene (3.223)+
-Iodomethane (3.402)
-Acrolein (3.674)
-Allyl Chloride (3.838)
-Methylene Chloride (3.981)
-trans-1,2-Dichloroethene (4.203)+
-Methyl tert-butyl ether (4.388)
-Acetonitrile (4.796)
-Di-isopropyl ether (5.025)
-Acrylonitrile (5.332)
-Tertiary-butyl alcohol (5.704)+
-cis-1,2-Dichloroethene (6.254)
-2,2-Dichloropropane (6.476)
-Chloroform (6.912)
-Carbon Tetrachloride (7.140)
-1,1-Dichloropropene (7.619)+
-Benzene (8.155)
-Pentafluorobenzene (8.470)+
-1,2-Dichloroethane (8.606)
-Isobutyl Alcohol (8.892)
-Trichloroethene (9.285)+
-1,4-Difluorobenzene (9.471)
-Dibromomethane (10.114)
-1,2-Dichloropropane (10.300)
-Bromodichloromethane (10.464)
-Methyl Methacrylate (10.836)+
-cis-1,3-dichloropropene (11.544)+
-Toluene-D8 (11.837)
-Toluene (11.915)
-Tetrachloroethene (12.501)
-4-methyl-2-pentanone (12.623)
-1,1,2-Trichloroethane (12.866)
-Ethyl Methacrylate (12.962)
-Dibromochloromethane (13.116)
-1,3-Dichloropropane (13.266)
-2-Hexanone (13.910)
-Chlorobenzene-D5 (14.246)+
1,1,1,2-Tetrachloroethane (14.381)
m+p-Xylenes (14.574)
-o-Xylene (15.214)
-Styrene (15.296)+
-Isopropylbenzene (15.689)
-P-Bromofluorobenzene (16.097)
-N-Propylbenzene (16.319)
-1,1,2,2-Tetrachloroethane (16.469)
-2-Chlorotoluene (16.540)
-4-Chlorotoluene (16.826)
1,3,5-Trimethylbenzene (16.662)+
-tert-Butylbenzene (17.212)+
-1,2,4-Trimethylbenzene (17.348)
-sec-Butylbenzene (17.548)
-P-Isopropyltoluene (17.848)
-1,3-Dichlorobenzene (17.926)
-1,2,3-Trimethylbenzene (18.170)
1,4-Dichlorobenzene-D4 (18.070)+
-N-Butylbenzene (18.634)
-1,2-Dichlorobenzene (18.856)
-1,2-Dibromo-3-Chloropropa (20.271)
-1,3,5-Trichlorobenzene (20.314)
Hexachlorobutadiene (21.372)+
-Naphthalene (21.501)
-1,2,3-Trichlorobenzene (22.180)

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

GCMS-W INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 01/19/15 9:07

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	PREP METHOD 5035	PREP METHOD 1311	Criteria KAS	Criteria DoD	Criteria QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -10	WB111	1	-1	VOABFBSL							Y	REC	7	
VSTD050W19A	W1901	1	1	W826816							N			
VSTD05OW19B	02	1	2								Y			W6157196-4
VSTD200W19A	03	1	3								Y			-6
VSTD100W19A	04	1	4								Y			Curve -5
VSTD020W19A	05	1	5								Y			good -3
VSTD010W19A	06	1	6								Y			-2
VSTD005W19A	07	1	7								Y			-1
LCSA -8	08	1	8								Y			IND -7
VBLKA	09	1	9								N			
VBLKB -9	10	1	10								Y			
SI0230-1 B	11	1	11			X			X		N			all ods REC ISSL ISSL not needed
-1RA C	12	1	12								Y			
SI0301 ~~-1~~ B	13	1	13								N			ISSL not needed
-1RA B	14	1	14								Y			
-2 B	15	1	15								Y			
-2RA C	16	1	16								N			not needed
SI0195-1 A	17	1	17					X			Y			ISSL 45SL run seq
1 -1RA B	18	1	18					1			Y			19158 ISSL 45SL 1
Rinse	19	1	19								N		Z	
Rinse	20	1	20								N			
Rinse	21	1	21								N		Z	
Rinse	22	1	22								N			
														01/20/15 REC

STANDARD	CODE
BFB	V9677
CAL. STD.	V9675 V9687
LCS/MS MIX	V9689
EXTRAS MIX	V9688

STANDARD	CODE
IS MIX	V9685
SS MIX	V9679

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS562

VOA-023 – Revision 1 – 05/14/2014

0000010

Katahdin Analytical Services 0000230

KATAHDIN ANALYTICAL SERVICES

Organics Vial Prep Log

Methods: SW8260 SW8015 ME DEP 4.2.17 MA DEP VPH

Date	Analyst	Vial Number	Vial + Preservative (g)	Vial + Preservative + Sample (g)	Sample Weight (g)	Preservative	Preservative Volume (mL)	Sample Name	Comments
10-23-14	DM	84780	33.92			DI / MEOH / NaHSO4	5 / 10		
		84781	33.56	38.52	4.96	DI / MEOH / NaHSO4	5 / 10	TM0671-2 C	
		84782	33.92	39.01	5.09	DI / MEOH / NaHSO4	5 / 10	TM0671-5 B	
		84783	33.69	38.75	5.06	DI / MEOH / NaHSO4	5 / 10	SI0230-1C	
		84784	33.71	38.93	5.22	DI / MEOH / NaHSO4	5 / 10	SI0301-1C	
		84785	34.18			DI / MEOH / NaHSO4	5 / 10		
		84786	33.85			DI / MEOH / NaHSO4	5 / 10		
		84787	33.83			DI / MEOH / NaHSO4	5 / 10		
		84788	33.36			DI / MEOH / NaHSO4	5 / 10		
		84789	33.93			DI / MEOH / NaHSO4	5 / 10		
↓	↓	84790	34.03			DI / MEOH / NaHSO4	5 / 10		
10-23-14	DM	84791	32.67			DI / MEOH / NaHSO4	5 / 10		
		84792	32.52			DI / MEOH / NaHSO4	5 / 10		
		84793	32.41			DI / MEOH / NaHSO4	5 / 10		
		84794	32.57			DI / MEOH / NaHSO4	5 / 10		
		84795	31.98			DI / MEOH / NaHSO4	5 / 10		
		84796	32.54			DI / MEOH / NaHSO4	5 / 10		
		84797	32.35			DI / MEOH / NaHSO4	5 / 10		
		84798	31.97			DI / MEOH / NaHSO4	5 / 10		
↓	↓	84799	32.49			DI / MEOH / NaHSO4	5 / 10		

40 mL Vial Lot # 090114-3AVF
MeOH Lot #: DK793
NaSO4 Lot #:

DI Preservative = Deionized Water +Stirbar
NaHSO4 Preservative = 20% NaSO4 Solution + stirbar

SEMIVOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** SL
Lab Code: KAS **SDG:** SI0230

Client Sample ID	Lab Sample ID	Col. ID	2FBP	#	2FP	#	NBZ	#	PHL	#	TBP	#	TPH	#
IDWS-0312-011315	SI0230-1		71.8		52.7		53.0		57.7		74.5		95.6	
Method Blank Sample	WG156989-1		82.7		64.1		63.9		69.8		75.5		99.0	
Laboratory Control S	WG156989-2		74.9		55.1		56.4		58.0		77.6		88.4	
Laboratory Control S	WG156989-3		74.6		55.2		56.0		56.9		70.1		86.0	

		QC Limits
TPH	TERPHENYL-D14	30-125
NBZ	NITROBENZENE-D5	35-100
PHL	PHENOL-D6	40-100
2FP	2-FLUOROPHENOL	35-105
TBP	2,4,6-TRIBROMOPHENOL	35-125
2FBP	2-FLUOROBIPHENYL	45-105

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG156989-1
Lab File ID : U9270.D
Date Extracted : 15-JAN-15
Instrument ID : GCMS-U
Date Analyzed : 19-JAN-15
Matrix : SL
Time Analyzed : 12:15

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
IDWS-0312-011315	SI0230-1	U9278.D	01/19/15	18:08
Laboratory Control S	WG156989-2	U9282.D	01/19/15	21:00
Laboratory Control S	WG156989-3	U9283.D	01/19/15	21:43

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : UD310.D
Instrument ID : GCMS-U

SDG : SI0230
Date Analyzed : 12-JAN-15
Time Analyzed : 12:47

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	38.0		
68	Less than 2.0% of mass 69	0.6	1.75	1
69	Less than 100.0% of mass 198	36.4		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	47.6		
197	Less than 1.0% of mass 198	0.2		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.6		
275	10.0 - 30.0% of mass 198	21.1		
365	1.0 - 100.0% of mass 198	2.3		
441	0.0 - 100.0% of mass 443	12.0	81.95	2
442	40.0 - 100.0% of mass 198	74.5		
443	17.0 - 23.0% of mass 442	14.6	19.62	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG156827-4	U9207.D	01/12/15	13:06
Initial Calibration	WG156827-2	U9208.D	01/12/15	13:57
Initial Calibration	WG156827-3	U9209.D	01/12/15	14:41
Initial Calibration	WG156827-5	U9210.D	01/12/15	15:25
Initial Calibration	WG156827-6	U9211.D	01/12/15	16:09
Initial Calibration	WG156827-7	U9212.D	01/12/15	16:53
Independent Source	WG156827-8	U9213.D	01/12/15	17:38

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : UD313.D
Instrument ID : GCMS-U

SDG : SI0230
Date Analyzed : 19-JAN-15
Time Analyzed : 11:12

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	34.3		
68	Less than 2.0% of mass 69	0.4	1.38	1
69	Less than 100.0% of mass 198	32.3		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	46.5		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.6		
275	10.0 - 30.0% of mass 198	20.4		
365	1.0 - 100.0% of mass 198	2.6		
441	0.0 - 100.0% of mass 443	12.0	87.35	2
442	40.0 - 100.0% of mass 198	71.3		
443	17.0 - 23.0% of mass 442	13.7	19.27	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG157161-2	U9269.D	01/19/15	11:31
Method Blank Sample	WG156989-1	U9270.D	01/19/15	12:15
IDWS-0312-011315	SI0230-1	U9278.D	01/19/15	18:08
Laboratory Control S	WG156989-2	U9282.D	01/19/15	21:00
Laboratory Control S	WG156989-3	U9283.D	01/19/15	21:43

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG156827-4
Lab File ID : U9207.D

SDG: SI0230
Analytical Date: 01/12/15 13:06
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4			NAPHTHALENE-D8			ACENAPHTHENE-D10		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	324197		8.38		1217246		11.34		641042		15.65	
	Upper Limit	648394		8.88		2434492		11.84		1282084		16.15	
	Lower Limit	162098.5		7.88		608623		10.84		320521		15.15	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG157161-2	446276		8.24		1706859		11.21		890706		15.51	
Method Blank Sample	WG156989-1	411327		8.25		1662069		11.20		858050		15.50	
IDWS-0312-011315	SI0230-1	445944		8.25		1735052		11.20		883016		15.49	
Laboratory Control S	WG156989-2	428317		8.25		1640875		11.20		837058		15.51	
Laboratory Control S	WG156989-3	450275		8.25		1688411		11.21		837103		15.50	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG156827-4
Lab File ID : U9207.D

SDG: SI0230
Analytical Date: 01/12/15 13:06
Instrument ID: GCMS-U

		PHENANTHRENE-D10			CHRYSENE-D12			PERYLENE-D12		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	958107		19.31		749410		25.90		548711		29.17	
	Upper Limit	1916214		19.81		1498820		26.40		1097422		29.67	
	Lower Limit	479053.5		18.81		374705		25.40		274355.5		28.67	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG157161-2	1171855		19.16		807837		25.72		533314		28.98	
Method Blank Sample	WG156989-1	1285848		19.15		830622		25.71		535582		28.98	
IDWS-0312-011315	SI0230-1	1306060		19.15		662678		25.71		363038		28.98	
Laboratory Control S	WG156989-2	1151808		19.15		710063		25.72		459100		28.98	
Laboratory Control S	WG156989-3	1046502		19.15		609779		25.72		415966		28.99	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-1
Client ID: IDWS-0312-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: U9278.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG156989

Analysis Date: 19-JAN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: 79.
Report Date: 20-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	290	ug/Kgdrywt	1	330	390	180	290
Bis(2-Chloroethyl)Ether	U	290	ug/Kgdrywt	1	330	390	96.	290
2-Chlorophenol	U	290	ug/Kgdrywt	1	330	390	190	290
1,3-Dichlorobenzene	U	290	ug/Kgdrywt	1	330	390	93.	290
1,4-Dichlorobenzene	U	290	ug/Kgdrywt	1	330	390	100	290
1,2-Dichlorobenzene	U	290	ug/Kgdrywt	1	330	390	100	290
2-Methylphenol	U	290	ug/Kgdrywt	1	330	390	240	290
2,2'-Oxybis(1-Chloropropane)	U	290	ug/Kgdrywt	1	330	390	100	290
3&4-Methylphenol	U	290	ug/Kgdrywt	1	330	390	220	290
N-Nitroso-Di-N-Propylamine	U	290	ug/Kgdrywt	1	330	390	98.	290
Hexachloroethane	U	290	ug/Kgdrywt	1	330	390	110	290
Nitrobenzene	U	290	ug/Kgdrywt	1	330	390	110	290
Isophorone	U	290	ug/Kgdrywt	1	330	390	89.	290
2-Nitrophenol	U	290	ug/Kgdrywt	1	330	390	200	290
2,4-Dimethylphenol	U	290	ug/Kgdrywt	1	330	390	200	290
Bis(2-Chloroethoxy)Methane	U	290	ug/Kgdrywt	1	330	390	110	290
2,4-Dichlorophenol	U	290	ug/Kgdrywt	1	330	390	180	290
1,2,4-Trichlorobenzene	U	290	ug/Kgdrywt	1	330	390	96.	290
Naphthalene	U	290	ug/Kgdrywt	1	330	390	100	290
4-Chloroaniline	U	290	ug/Kgdrywt	1	330	390	140	290
Hexachlorobutadiene	U	290	ug/Kgdrywt	1	330	390	98.	290
4-Chloro-3-Methylphenol	U	290	ug/Kgdrywt	1	330	390	200	290
2-Methylnaphthalene	U	290	ug/Kgdrywt	1	330	390	110	290
Hexachlorocyclopentadiene	U	290	ug/Kgdrywt	1	330	390	97.	290
2,4,6-Trichlorophenol	U	290	ug/Kgdrywt	1	330	390	180	290
2,4,5-Trichlorophenol	U	730	ug/Kgdrywt	1	820	970	180	730
2-Chloronaphthalene	U	290	ug/Kgdrywt	1	330	390	100	290
2-Nitroaniline	U	730	ug/Kgdrywt	1	820	970	89.	730
Dimethyl Phthalate	U	290	ug/Kgdrywt	1	330	390	93.	290
Acenaphthylene	U	290	ug/Kgdrywt	1	330	390	83.	290
2,6-Dinitrotoluene	U	290	ug/Kgdrywt	1	330	390	94.	290
3-Nitroaniline	U	730	ug/Kgdrywt	1	820	970	110	730
Acenaphthene	U	290	ug/Kgdrywt	1	330	390	77.	290
2,4-Dinitrophenol	U	730	ug/Kgdrywt	1	820	970	450	730
4-Nitrophenol	U	730	ug/Kgdrywt	1	820	970	370	730

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-1
Client ID: IDWS-0312-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: U9278.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG156989

Analysis Date: 19-JAN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: 79.
Report Date: 20-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dibenzofuran	U	290	ug/Kgdrywt	1	330	390	94.	290
2,4-Dinitrotoluene	U	290	ug/Kgdrywt	1	330	390	100	290
Diethylphthalate	U	290	ug/Kgdrywt	1	330	390	95.	290
4-Chlorophenyl-Phenylether	U	290	ug/Kgdrywt	1	330	390	93.	290
Fluorene	U	290	ug/Kgdrywt	1	330	390	96.	290
4-Nitroaniline	U	730	ug/Kgdrywt	1	820	970	160	730
4,6-Dinitro-2-Methylphenol	U	730	ug/Kgdrywt	1	820	970	400	730
N-Nitrosodiphenylamine	U	290	ug/Kgdrywt	1	330	390	260	290
4-Bromophenyl-Phenylether	U	290	ug/Kgdrywt	1	330	390	100	290
Hexachlorobenzene	U	290	ug/Kgdrywt	1	330	390	97.	290
Pentachlorophenol	U	730	ug/Kgdrywt	1	820	970	280	730
Phenanthrene	U	290	ug/Kgdrywt	1	330	390	98.	290
Anthracene	U	290	ug/Kgdrywt	1	330	390	100	290
Carbazole	U	290	ug/Kgdrywt	1	330	390	130	290
Di-N-Butylphthalate	U	290	ug/Kgdrywt	1	330	390	120	290
Fluoranthene	J	140	ug/Kgdrywt	1	330	390	120	290
Pyrene	J	150	ug/Kgdrywt	1	330	390	120	290
Butylbenzylphthalate	U	290	ug/Kgdrywt	1	330	390	110	290
3,3'-Dichlorobenzidine	U	290	ug/Kgdrywt	1	330	390	140	290
Benzo(a)anthracene	U	290	ug/Kgdrywt	1	330	390	100	290
Chrysene	U	290	ug/Kgdrywt	1	330	390	110	290
Bis(2-Ethylhexyl)Phthalate	U	290	ug/Kgdrywt	1	330	390	120	290
Di-N-Octylphthalate	U	290	ug/Kgdrywt	1	330	390	250	290
Benzo(b)fluoranthene	U	290	ug/Kgdrywt	1	330	390	160	290
Benzo(k)fluoranthene	U	290	ug/Kgdrywt	1	330	390	98.	290
Benzo(a)pyrene	U	290	ug/Kgdrywt	1	330	390	110	290
Indeno(1,2,3-cd)pyrene	U	290	ug/Kgdrywt	1	330	390	140	290
Dibenzo(a,h)anthracene	U	290	ug/Kgdrywt	1	330	390	150	290
Benzo(g,h,i)perylene	U	290	ug/Kgdrywt	1	330	390	120	290
2-Fluorophenol		52.7						
Phenol-d6		57.7						
Nitrobenzene-d5		53.0						
2-Fluorobiphenyl		71.8						
2,4,6-Tribromophenol		74.5						
Terphenyl-d14		95.6						

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9278.D
Report Date: 20-Jan-2015 10:02

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011915.b\U9278.D
Lab Smp Id: SI0230-1 Client Smp ID: IDWS-0312-011315
Inj Date : 19-JAN-2015 18:08 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : SI0230-1
Misc Info : WG157161,WG156989,WG156827-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011915.b\U8270C70.m
Meth Date : 19-Jan-2015 14:50 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 16:53 Cal File: U9212.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8270bnaDoD.sub
Target Version: 4.12
Processing Host: V200T4

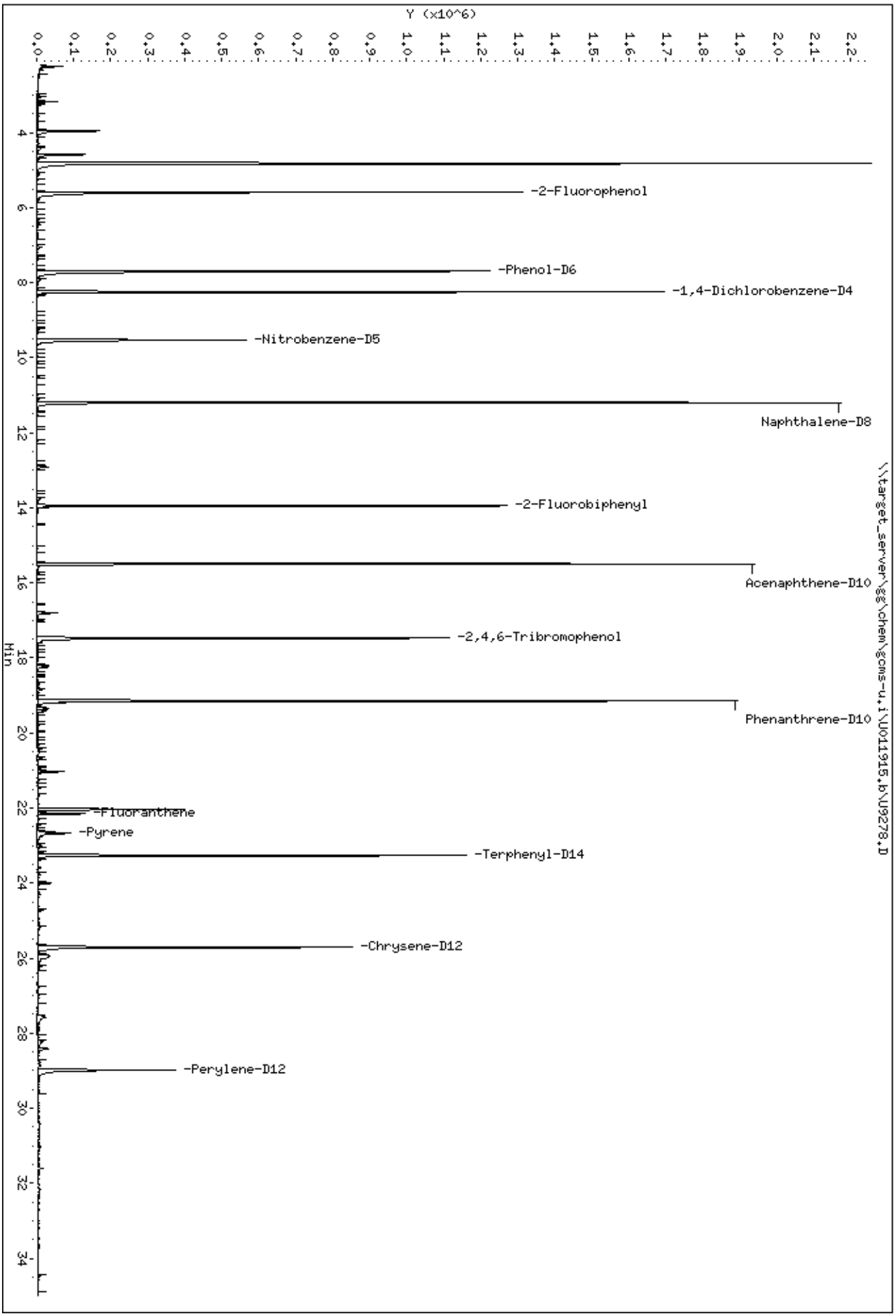
Concentration Formula: Amt * DF * (Vt/Ws*Vi)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03180	Weight of Sample (Kg)
Vi	1.000	Volume injected (uL)
M	20.570	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 8 2-Fluorophenol	112	5.589	5.590	(0.678)	763985	52.6733	2080	
$ 14 Phenol-D6	99	7.690	7.701	(0.932)	902609	57.7112	2280	
* 19 1,4-Dichlorobenzene-D4	152	8.249	8.240	(1.000)	445944	40.0000		
$ 33 Nitrobenzene-D5	82	9.532	9.544	(0.851)	355185	26.5469	1050	
* 44 Naphthalene-D8	136	11.198	11.210	(1.000)	1735052	40.0000		
$ 64 2-Fluorobiphenyl	172	13.952	13.953	(0.900)	796495	35.8630	1420	
* 77 Acenaphthene-D10	164	15.494	15.505	(1.000)	883016	40.0000		
$ 101 2,4,6-Tribromophenol	330	17.481	17.493	(1.128)	278650	74.5418	2950	
* 114 Phenanthrene-D10	188	19.147	19.159	(1.000)	1306060	40.0000		
126 Fluoranthene	202	22.149	22.161	(1.157)	109930	3.45183	137(a)	
128 Pyrene	202	22.677	22.678	(0.882)	87940	3.81201	151(a)	
$ 129 Terphenyl-D14	244	23.267	23.268	(0.905)	692703	47.8301	1890	
* 139 Chrysene-D12	240	25.709	25.721	(1.000)	662678	40.0000		
* 150 Perylene-D12	264	28.980	28.981	(1.000)	363038	40.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-2-Fluorophenol
-Phenol-D6
-1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
-2,4,6-Tribromophenol
Phenanthrene-D10
-Fluoranthene
-Pyrene
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12
Data File: \\target_server\gg\chem\gcms-u,i\U011915,b\U9278.D
Date : 19-JAN-2015 18:08
Client ID: IDWS-0312-011315
Sample Info: SI0230-1
Instrument: gcms-u,i
\\target_server\gg\chem\gcms-u,i\U011915,b\U9278.D

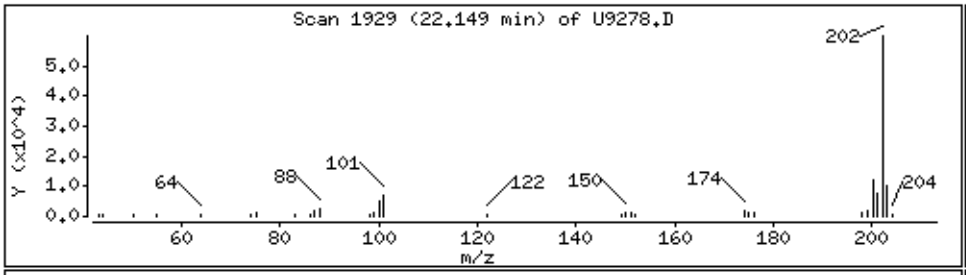
Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9278.D

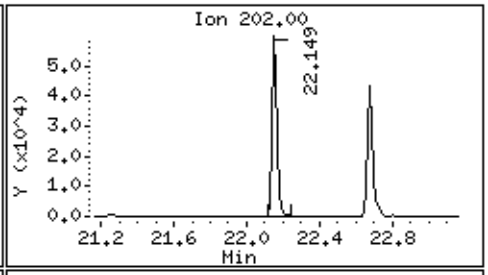
Date : 19-JAN-2015 18:08

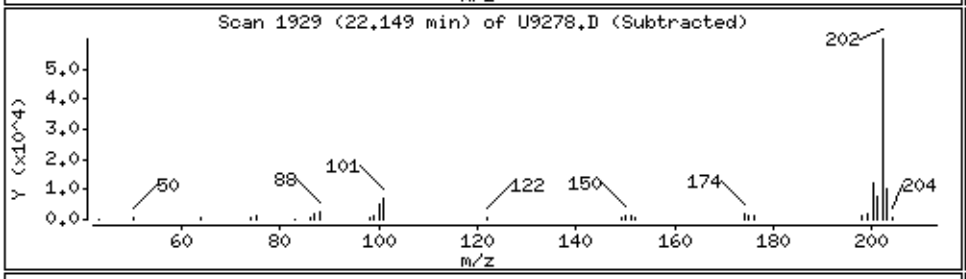
Client ID: IDWS-0312-011315 Instrument: gcms-u.i

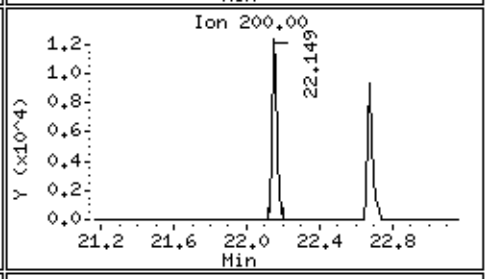
Sample Info: SI0230-1

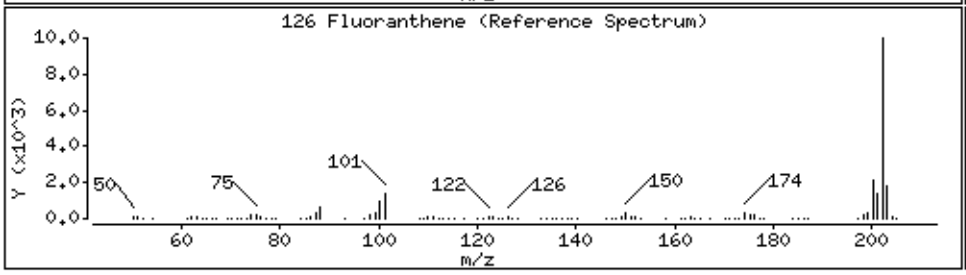
126 Fluoranthene Concentration: 137 ug/Kgdrywt

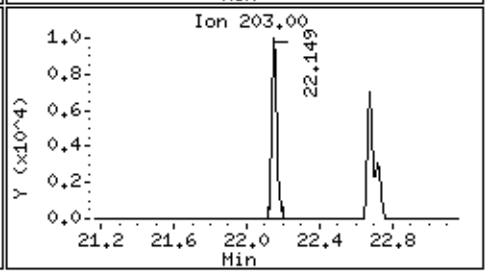




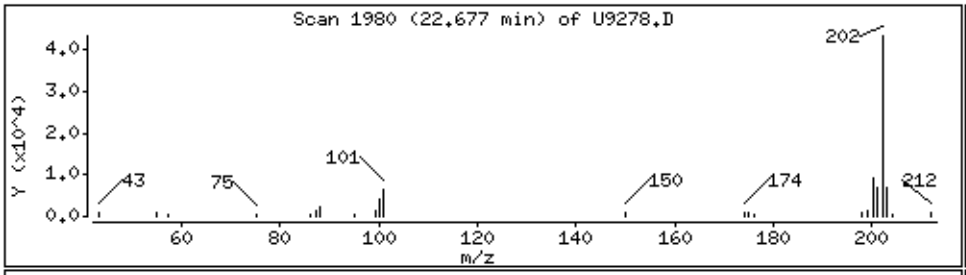


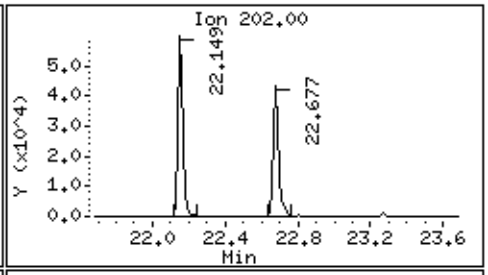


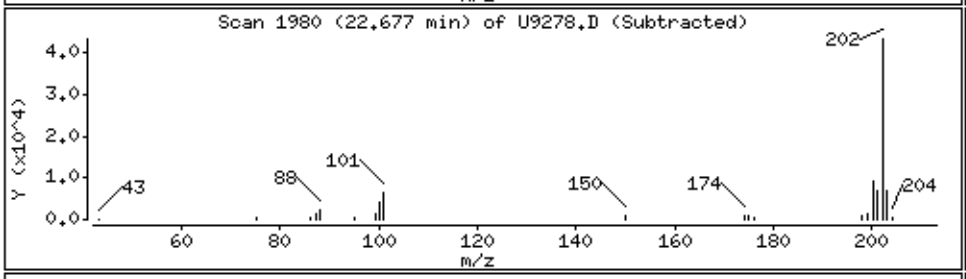


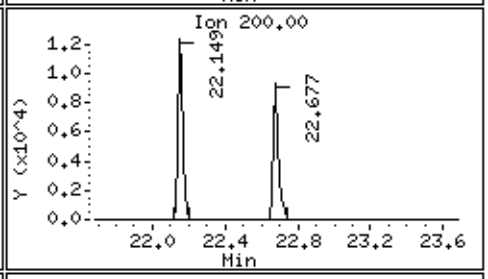


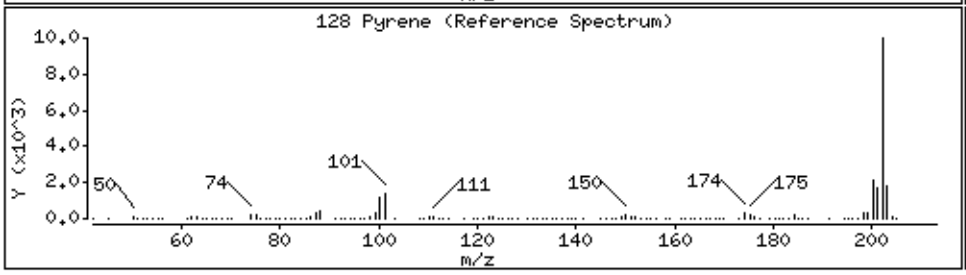
128 Pyrene Concentration: 151 ug/Kgdrywt

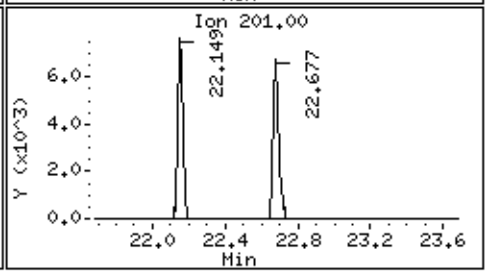












Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI0230

Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-U

Lab File IDs : U9208.D U9209.D U9207.D **Column ID:**
U9210.D U9211.D U9212.D **Calibration Date(s):** 12-JAN-15 13:06
12-JAN-15 16:53

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	10.0000	25.0000	50.0000	75.0000	100.0000	125.0000	New	b	m1	m2	%RSD	%RSD	
Phenol	1.62061	1.60979	1.54510	1.45363	1.39809	1.36202	AVG		1.49821		7.32309	30.00000	O
Bis(2-Chloroethyl)ether	1.24446	1.19577	1.11664	1.04094	0.98539	0.94961	AVG		1.08880		10.77416	15.00000	O
2-Chlorophenol	1.34503	1.33866	1.30231	1.22041	1.17185	1.11662	AVG		1.24915		7.54342	15.00000	O
1,3-Dichlorobenzene	1.53775	1.53026	1.42461	1.34895	1.28365	1.21636	AVG		1.39026		9.42517	15.00000	O
1,4-Dichlorobenzene	1.57275	1.52759	1.41946	1.31705	1.24232	1.16336	AVG		1.37375		11.74239	30.00000	O
1,2-Dichlorobenzene	1.49831	1.46707	1.37059	1.27310	1.22655	1.16583	AVG		1.33358		10.03684	15.00000	O
2,2'-Oxybis(1-chloropropane	1.74469	1.72269	1.64120	1.53791	1.45589	1.39913	AVG		1.58359		8.97673	15.00000	O
2-Methylphenol	1.25752	1.24902	1.18897	1.18677	1.18931	1.17894	AVG		1.20842		2.89998	15.00000	O
N-Nitroso-di-n-propylamine	0.88423	0.84347	0.75764	0.75548	0.65347	0.63809	AVG		0.75540		13.03917	15.00000	O
Hexachloroethane	0.60221	0.59999	0.55891	0.52826	0.45113	0.40629	AVG		0.52447		15.32328	15.00000	WC
3&4-Methylphenol	1.31860	1.33574	1.29172	1.26838	1.24668	1.21225	AVG		1.27890		3.59383	15.00000	O
Nitrobenzene	0.35103	0.33264	0.31649	0.29451	0.28365	0.27186	AVG		0.30836		9.84791	15.00000	O
Isophorone	0.63190	0.63920	0.60755	0.58535	0.57762	0.57206	AVG		0.60228		4.74042	15.00000	O
2-Nitrophenol	0.18110	0.19171	0.18370	0.17953	0.17934	0.17055	AVG		0.18099		3.79802	30.00000	O
2,4-Dimethylphenol	0.33361	0.34286	0.33151	0.29636	0.28596	0.27378	AVG		0.31068		9.29864	15.00000	O
Bis(2-Chloroethoxy)methane	0.39434	0.42838	0.44950	0.42662	0.39602	0.38098	AVG		0.41264		6.33403	15.00000	O
2,4-Dichlorophenol	0.26707	0.28296	0.28034	0.27147	0.25932	0.24618	AVG		0.26789		5.11892	30.00000	O
1,2,4-Trichlorobenzene	0.30394	0.31054	0.28841	0.27124	0.25451	0.24212	AVG		0.27846		9.80012	15.00000	O
Naphthalene	0.93353	0.93619	0.83209	0.77212	0.71726	0.67220	AVG		0.81057		13.59211	15.00000	O
4-Chloroaniline	0.39637	0.39520	0.35365	0.31490	0.26034	0.27728	AVG		0.33296		17.52425	15.00000	WC
Hexachlorobutadiene	0.15432	0.15765	0.14356	0.13406	0.12552	0.11657	AVG		0.13861		11.68526	30.00000	O
4-Chloro-3-Methylphenol	0.27318	0.28437	0.28463	0.26797	0.25620	0.23409	AVG		0.26674		7.21260	30.00000	O
2-Methylnaphthalene	0.72475	0.75639	0.66809	0.58145	0.53107	0.69628	AVG		0.65967		13.15565	15.00000	O
Hexachlorocyclopentadiene	0.27878	0.29605	0.28546	0.26335	0.25142	0.22566	AVG		0.26679		9.61280	15.00000	O
2,4,6-Trichlorophenol	0.36634	0.37960	0.36461	0.33460	0.31696	0.29547	AVG		0.34293		9.54679	30.00000	O
2,4,5-Trichlorophenol	0.36725	0.36488	0.35983	0.34407	0.33569	0.31471	AVG		0.34774		5.85172	15.00000	O
2-Chloronaphthalene	306531	560847	1048803	1601998	2063095	2451717	QUA	-0.02509	0.66353	0.06527	0.99856	0.99000	O
2-Nitroaniline	0.31974	0.33913	0.33164	0.32290	0.32032	0.30232	AVG		0.32268		3.86924	15.00000	O
Dimethyl Phthalate	1.24173	1.22913	1.13041	1.07393	1.03512	0.95127	AVG		1.11026		10.19527	15.00000	O
Acenaphthylene	1.85101	1.79315	1.60358	1.49292	1.40914	1.26050	AVG		1.56838		14.46904	15.00000	O
2,6-Dinitrotoluene	0.25920	0.26313	0.25392	0.24746	0.23241	0.21800	AVG		0.24568		7.05199	15.00000	O
3-Nitroaniline	0.32694	0.34862	0.33754	0.30529	0.27263	0.25677	AVG		0.30797		11.94333	15.00000	O
Acenaphthene	197695	409561	760682	1140519	1382507	1645807	QUA	0.00516	0.76215	0.23893	0.99985	0.99000	O
2,4-Dinitrophenol	17356	51198	125673	227739	295143	371833	LNR	0.08325	0.17598		0.99785	0.99000	O
Dibenzofuran	1.58653	1.51740	1.36118	1.26629	1.21414	1.12057	AVG		1.34435		13.38962	15.00000	O
2,4-Dinitrotoluene	0.34845	0.37190	0.35318	0.34690	0.32765	0.31775	AVG		0.34431		5.58205	15.00000	O
4-Nitrophenol	0.17459	0.22420	0.24804	0.21905	0.20690	0.19622	AVG		0.21150		11.90695	15.00000	O

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-U
Lab File IDs : U9208.D U9209.D U9207.D **Column ID:**
U9210.D U9211.D U9212.D **Calibration Date(s):** 12-JAN-15 13:06
12-JAN-15 16:53

Diethylphthalate	239559	499955	930005	1360869	1572233	1789501	QUA	0.04872	0.36930	0.31493	0.99747	0.99000	O
Fluorene	217197	460874	848725	1261841	1512992	1726003	QUA	0.02987	0.54025	0.27862	0.99798	0.99000	O
4-Chlorophenyl-phenylether	0.57967	0.55986	0.51820	0.48761	0.46712	0.42895	AVG		0.50690		11.2492	15.00000	O
4-Nitroaniline	0.30506	0.31417	0.31693	0.30870	0.27813	0.27878	AVG		0.30030		5.79954	15.00000	O
4,6-Dinitro-2-Methylphenol	0.09878	0.12589	0.13438	0.13819	0.13549	0.13337	AVG		0.12769		11.5479	15.00000	O
N-Nitrosodiphenylamine	0.61924	0.63067	0.59739	0.56742	0.56312	0.54480	AVG		0.58711		5.79567	30.00000	O
4-Bromophenyl-phenylether	0.19915	0.20710	0.19562	0.18759	0.18833	0.18929	AVG		0.19451		3.94741	15.00000	O
Hexachlorobenzene	0.24201	0.24220	0.23983	0.22260	0.21993	0.21041	AVG		0.22950		5.93704	15.00000	O
Pentachlorophenol	0.12732	0.12970	0.13760	0.12403	0.12220	0.11890	AVG		0.12663		5.19481	30.00000	O
Phenanthrene	1.17464	1.12724	1.05652	0.98590	0.94343	0.91379	AVG		1.03359		10.0498	15.00000	O
Anthracene	1.14858	1.12504	1.08167	0.99179	0.94084	0.88762	AVG		1.02925		10.2306	15.00000	O
Carbazole	1.00909	0.99963	0.99845	0.87080	0.81175	0.80944	AVG		0.91653		10.5473	15.00000	O
Di-n-butylphthalate	1.43957	1.43090	1.38131	1.19313	1.11974	1.09457	AVG		1.27654		12.4375	15.00000	O
Fluoranthene	1.15299	1.10579	1.05072	0.90891	0.82079	0.81294	AVG		0.97536		15.1331	30.00000	O
Pyrene	1.44168	1.48642	1.39861	1.35717	1.38568	1.28533	AVG		1.39248		4.98125	15.00000	O
Butylbenzylphthalate	0.73990	0.71437	0.71422	0.67681	0.66260	0.64266	AVG		0.69176		5.33847	15.00000	O
Benzo(a)anthracene	1.04394	0.99812	0.97464	0.95037	0.93965	0.89979	AVG		0.96775		5.16330	15.00000	O
3,3'-Dichlorobenzidine	0.30663	0.30735	0.29939	0.28866	0.28506	0.27262	AVG		0.29328		4.64852	15.00000	O
Chrysene	1.05454	0.96810	0.88997	0.84501	0.77959	0.73089	AVG		0.87802		13.6523	15.00000	O
bis(2-Ethylhexyl)phthalate	1.03439	0.95503	0.99943	0.90453	0.90232	0.87659	AVG		0.94538		6.55345	15.00000	O
Di-n-octylphthalate	2.11655	2.04579	2.06740	2.23954	2.19520	2.18288	AVG		2.14123		3.58617	30.00000	O
Benzo(b)fluoranthene	1.17078	1.07769	1.03340	1.04962	1.05685	1.00683	AVG		1.06586		5.31246	15.00000	O
Benzo(k)fluoranthene	1.17586	1.20167	1.13188	1.08253	1.06263	1.02076	AVG		1.11256		6.24572	15.00000	O
Benzo(a)pyrene	0.96383	0.94016	0.97924	0.95032	0.96940	0.87711	AVG		0.94668		3.88594	30.00000	O
Indeno(1,2,3-cd)pyrene	142336	172799	382375	426291	513380	610433	QUA	-0.03997	1.98329	-0.06749	0.99412	0.99000	O
Dibenzo(a,h)anthracene	0.57989	0.60315	0.58659	0.51665	0.58939	0.57513	AVG		0.57513		5.25228	15.00000	O
Benzo(g,h,i)perylene	0.65252	0.66552	0.62828	0.55225	0.59793	0.56961	AVG		0.61102		7.43912	15.00000	O
2-Fluorophenol	1.30496	1.34230	1.30184	1.30340	1.29671	1.25673	AVG		1.30099		2.09244	15.00000	
Phenol-D6	1.45976	1.48312	1.41703	1.37475	1.34393	1.33866	AVG		1.40288		4.30813	15.00000	
Nitrobenzene-D5	0.31600	0.32665	0.31774	0.30711	0.29697	0.28625	AVG		0.30845		4.81045	15.00000	
2-Fluorobiphenyl	1.20695	1.14011	1.03588	0.94545	0.90076	0.80727	AVG		1.00607		14.9751	15.00000	
2,4,6-Tribromophenol	0.17248	0.18868	0.17370	0.16902	0.15866	0.15349	AVG		0.16934		7.32020	15.00000	
Terphenyl-D14	0.89889	0.91750	0.87893	0.85332	0.87548	0.82099	AVG		0.87419		3.88817	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9213.D
Report Date: 13-Jan-2015 13:01

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: 021497
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: WG156827-8
Level: LOW Operator: JCG
Data Type: MS DATA SampleType: INDCHECK
SpikeList File: INDcheck8270.spk Quant Type: ISTD
Sublist File: all_DOD.sub
Method File: \\target_server\gg\chem\gcms-u.i\U011215.b\U8270C70.m
Misc Info: WG156827,WG156827,WG156827-4,SI0027-6

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	1,4-Dioxane	50.0	52.8	105.61	80-120
2	N-Nitrosodimethyla	50.0	47.5	95.04	80-120
3	Pyridine	50.0	57.6	115.22	80-120
5	2-Picoline	50.0	58.7	117.40	80-120
6	N-Nitrosomethyleth	50.0	52.0	103.96	80-120
7	Methyl Methanesulf	50.0	42.9	85.73	80-120
9	N-Nitrosodiethylam	50.0	52.2	104.43	80-120
10	Ethyl Methanesulfo	50.0	50.9	101.74	80-120
11	Benzaldehyde	50.0	13.1	26.23*	80-120
12	Aniline	50.0	52.8	105.69	80-120
15	Phenol	50.0	54.5	109.09	80-120
16	Bis(2-Chloroethyl)	50.0	57.4	114.77	80-120
17	2-Chlorophenol	50.0	53.7	107.46	80-120
18	1,3-Dichlorobenzen	50.0	55.3	110.59	80-120
20	1,4-Dichlorobenzen	50.0	55.7	111.42	80-120
21	1,2-Dichlorobenzen	50.0	55.4	110.77	80-120
22	Benzyl alcohol	50.0	48.6	97.10	80-120
24	2,2'-Oxybis(1-chlo	50.0	39.9	79.82*	80-120
25	2-Methylphenol	50.0	50.4	100.72	80-120
27	Acetophenone	100	100	100.32	80-120
26	N-Nitrosopyrrolidi	50.0	48.6	97.21	80-120
29	o-Toluidine	50.0	52.1	104.16	80-120
28	N-Nitrosomorpholin	50.0	55.5	110.98	80-120
30	N-Nitroso-di-n-pro	50.0	50.7	101.46	80-120
31	Hexachloroethane	50.0	58.0	116.08	80-120
32	3&4-Methylphenol	50.0	52.5	105.08	80-120
34	Nitrobenzene	50.0	56.6	113.23	80-120
35	N-Nitrosopiperidin	50.0	52.8	105.55	80-120
36	Isophorone	50.0	54.6	109.30	80-120
37	2-Nitrophenol	50.0	55.5	111.05	80-120
38	2,4-Dimethylphenol	50.0	55.3	110.69	80-120
39	O,O,O-Triethylphos	50.0	55.4	110.81	80-120
40	Bis(2-Chloroethoxy	50.0	59.3	118.65	80-120
41	2,4-Dichlorophenol	50.0	54.8	109.61	80-120
42	1,2,4-Trichloroben	50.0	54.3	108.54	80-120
43	Benzoic acid	50.0	58.9	117.88	80-120
45	Naphthalene	50.0	57.5	115.03	80-120
48	2,6-Dichlorophenol	50.0	53.0	105.97	80-120
46	4-Chloroaniline	50.0	52.8	105.66	80-120
47	Hexachloropropene	50.0	56.4	112.88	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9213.D
Report Date: 13-Jan-2015 13:01

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
50	Hexachlorobutadien	50.0	56.3	112.63	80-120
49	A,A-Dimethylphene	50.0	0.000	*	80-120
51	N-Nitroso-Di-N-But	50.0	59.2	118.35	80-120
52	p-Phenylenediamine	50.0	0.000	*	80-120
53	Caprolactam	50.0	50.1	100.17	80-120
55	4-Chloro-3-Methylp	50.0	54.7	109.35	80-120
54	Isosafrole	50.0	51.0	102.09	80-120
56	2-Methylnaphthalen	50.0	57.9	115.88	80-120
57	1-Methylnaphthalen	50.0	53.7	107.36	80-120
59	1,2,4,5-Tetrachlor	100	121	121.37*	80-120
58	Diethyl Adipate	50.0	0.000	*	80-120
60	Hexachlorocyclopen	50.0	44.6	89.13	80-120
62	2,4,6-Trichlorophe	50.0	54.6	109.25	80-120
63	2,4,5-Trichlorophe	50.0	58.0	116.11	80-120
61	Safrole	50.0	46.5	93.01	80-120
65	2-Chloronaphthalen	50.0	56.4	112.73	80-120
66	1,1'-Biphenyl	50.0	50.4	100.90	80-120
67	1-Chloronaphthalen	50.0	48.4	96.84	80-120
69	2-Nitroaniline	50.0	55.7	111.36	80-120
70	1,4-Naphthoquinone	50.0	67.0	133.99*	80-120
72	1,3-Dinitrobenzene	50.0	51.8	103.55	80-120
73	Dimethyl Phthalate	50.0	53.7	107.48	80-120
75	2,6-Dinitrotoluene	50.0	53.2	106.32	80-120
74	Acenaphthylene	50.0	50.1	100.20	80-120
78	3-Nitroaniline	50.0	55.0	109.93	80-120
79	Acenaphthene	50.0	55.2	110.36	80-120
80	2,4-Dinitrophenol	50.0	50.0	99.98	80-120
81	Pentachlorobenzene	50.0	53.8	107.54	80-120
82	Dibenzofuran	50.0	52.7	105.43	80-120
86	4-Nitrophenol	50.0	53.3	106.54	80-120
83	2,4-Dinitrotoluene	50.0	53.7	107.39	80-120
84	1-Naphthylamine	50.0	48.0	96.02	80-120
87	2,3,4,6-Tetrachlor	50.0	48.3	96.59	80-120
88	2-Naphthylamine	50.0	51.5	103.05	80-120
89	Diethylphthalate	50.0	53.4	106.81	80-120
90	Fluorene	50.0	52.4	104.75	80-120
91	4-Chlorophenyl-phe	50.0	52.7	105.37	80-120
92	O,O-diethyl-o-2-py	50.0	53.3	106.52	80-120
94	5-Nitro-O-Toluidin	50.0	50.2	100.31	80-120
95	4-Nitroaniline	50.0	51.4	102.76	80-120
96	4,6-Dinitro-2-Meth	50.0	57.1	114.14	80-120
97	N-Nitrosodiphenyla	100	92.1	92.15	80-120
99	1,2-Diphenylhydraz	50.0	54.1	108.14	80-120
93	Sulfotepp	50.0	53.8	107.51	80-120
103	Diallate	50.0	56.4	112.74	80-120
102	Phorate	50.0	31.7	63.34*	80-120
105	1,3,5-Trinitrobenz	50.0	25.4	50.71*	80-120
104	4-Bromophenyl-phen	50.0	55.4	110.91	80-120
107	Phenacetin	50.0	51.5	103.08	80-120
106	Hexachlorobenzene	50.0	54.5	109.07	80-120
108	Dimethoate	50.0	51.8	103.57	80-120
109	Atrazine	50.0	25.4	50.91*	80-120
111	Pentachlorophenol	50.0	59.6	119.10	80-120
110	Pentachloronitrobe	50.0	55.1	110.12	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9213.D
Report Date: 13-Jan-2015 13:01

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
112 4-Aminobiphenyl	50.0	38.2	76.51*	80-120
113 Pronamide	50.0	53.7	107.39	80-120
115 Phenanthrene	50.0	54.3	108.68	80-120
116 Anthracene	50.0	54.7	109.38	80-120
118 Disulfoton	50.0	46.5	92.94	80-120
117 Dinoseb	50.0	55.6	111.32	80-120
119 Carbazole	50.0	52.1	104.26	80-120
120 Methyl Parathion	50.0	58.5	117.02	80-120
121 Di-n-butylphthalat	50.0	55.3	110.57	80-120
122 4-Nitroquinoline-1	50.0	41.0	81.95	80-120
123 Ethyl Parathion	50.0	53.2	106.30	80-120
124 Methapyrilene	50.0	44.3	88.62	80-120
125 Isodrin	50.0	53.8	107.53	80-120
126 Fluoranthene	50.0	51.9	103.86	80-120
127 Benzidine	50.0	17.1	34.29*	80-120
128 Pyrene	50.0	53.7	107.39	80-120
130 Aramite	50.0	0.000	*	80-120
131 p-Dimethylaminoazo	50.0	50.7	101.47	80-120
132 Chlorobenzilate	50.0	53.8	107.50	80-120
143 Kepone	50.0	0.000	*	80-120
134 3,3'-Dimethylbenzi	50.0	34.1	68.16*	80-120
135 Butylbenzylphthala	50.0	52.9	105.82	80-120
136 Bis(2-ethylhexyl)a	50.0	50.8	101.71	80-120
137 2-Acetylaminofluor	50.0	52.0	103.97	80-120
133 Famphur	50.0	0.000	0.00*	80-120
138 Benzo(a)anthracene	50.0	51.5	102.99	80-120
140 3,3'-Dichlorobenzi	100	47.0	46.99*	80-120
141 Chrysene	50.0	54.6	109.18	80-120
142 bis(2-Ethylhexyl)p	50.0	53.2	106.36	80-120
144 Di-n-octylphthalat	50.0	50.3	100.64	80-120
145 Benzo(b)fluoranthe	50.0	53.2	106.46	80-120
146 7,12-Dimethylbenz(	50.0	50.7	101.47	80-120
147 Benzo(k)fluoranthe	50.0	52.6	105.17	80-120
148 Benzo(a)pyrene	50.0	51.4	102.80	80-120
151 3-Methylcholanthre	50.0	54.5	109.08	80-120
149 Hexachlorophene	50.0	0.000	*	80-120
152 Dibenz(a,j)acridin	50.0	57.2	114.48	80-120
153 Indeno(1,2,3-cd)py	50.0	60.2	120.35*	80-120
154 Dibenzo(a,h)anthra	50.0	57.5	114.93	80-120
155 Benzo(g,h,i)peryle	50.0	56.5	113.05	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	100	0.000	*	20-110
$ 14 Phenol-D6	100	0.000	*	10-115
$ 33 Nitrobenzene-D5	50.0	0.000	*	40-110
$ 64 2-Fluorobiphenyl	50.0	0.000	*	50-110
$ 101 2,4,6-Tribromophe	100	0.000	*	40-125
$ 129 Terphenyl-D14	50.0	0.000	*	50-135

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9213.D
Report Date: 13-Jan-2015 13:01

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9207.D
Report Date: 13-Jan-2015 10:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011215.b\U9207.D
Lab Smp Id: WG156827-4
Inj Date : 12-JAN-2015 13:06
Operator : JCG   Inst ID: gcms-u.i
Smp Info : WG156827-4
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U011215.b\U8270C70.m
Meth Date : 13-Jan-2015 08:35 cgomez   Quant Type: ISTD
Cal Date : 05-JAN-2015 15:06   Cal File: U9110.D
Als bottle: 2   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.648	2.649	(0.316)	188844	50.0000	51.0	
	3 Pyridine	79	3.125	3.125	(0.373)	613317	50.0000	52.4	
	2 N-Nitrosodimethylamine	42	3.104	3.114	(0.370)	239638	50.0000	53.5	
	4 Ethyl Methacrylate	69	3.911	3.911	(0.467)	420152	50.0000	50.2	
	5 2-Picoline	93	4.439	4.429	(0.530)	577330	50.0000	49.3	
	6 N-Nitrosomethylethylamine	88	4.708	4.708	(0.562)	257016	50.0000	49.5	
	7 Methyl Methanesulfonate	80	5.329	5.350	(0.636)	315185	50.0000	50.6	
$	8 2-Fluorophenol	112	5.753	5.754	(0.686)	527564	50.0000	50.0	
	9 N-Nitrosodiethylamine	102	6.105	6.137	(0.728)	259574	50.0000	49.2	
	10 Ethyl Methanesulfonate	79	6.820	6.861	(0.814)	409401	50.0000	49.9	
	11 Benzaldehyde	77	7.420	7.420	(0.885)	132806	50.0000	52.7	
	13 Pentachloroethane	117	7.741	7.741	(0.923)	201675	50.0000	51.2	
	12 Aniline	93	7.699	7.720	(0.919)	762815	50.0000	51.1	
	16 Bis(2-Chloroethyl)ether	93	7.896	7.917	(0.942)	452515	50.0000	51.3	
$	14 Phenol-D6	99	7.855	7.865	(0.937)	574248	50.0000	50.5	
	15 Phenol	94	7.886	7.896	(0.941)	626147	50.0000	51.6	
	17 2-Chlorophenol	128	7.979	7.989	(0.952)	527756	50.0000	52.1	
	18 1,3-Dichlorobenzene	146	8.248	8.258	(0.984)	577317	50.0000	51.2	
*	19 1,4-Dichlorobenzene-D4	152	8.382	8.393	(1.000)	324197	40.0000		
	20 1,4-Dichlorobenzene	146	8.424	8.434	(1.005)	575231	50.0000	51.7	
	21 1,2-Dichlorobenzene	146	8.755	8.765	(1.044)	555428	50.0000	51.4	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9207.D
Report Date: 13-Jan-2015 10:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.827	8.869	(1.053)	351971	50.0000	50.8	
	23 Bis(2-Chloroisopropyl)ether	45	9.138	9.159	(1.090)	667713	50.0000	52.0	
	24 2,2'-Oxybis(1-chloropropane)	45	9.138	9.159	(1.090)	665092	50.0000	51.8	
	25 2-Methylphenol	108	9.231	9.304	(1.101)	481827	50.0000	49.2	
	27 Acetophenone	105	9.366	9.386	(0.826)	681597	50.0000	51.1	
	31 Hexachloroethane	117	9.511	9.521	(1.135)	226497	50.0000	53.3	
	26 N-Nitrosopyrrolidine	100	9.335	9.469	(1.114)	257782	50.0000	53.8	
	29 o-Toluidine	106	9.448	9.480	(1.127)	710933	50.0000	50.6	
	28 N-Nitrosomorpholine	56	9.428	9.500	(1.125)	350040	50.0000	53.2	
	30 N-Nitroso-di-n-propylamine	70	9.459	9.521	(1.128)	307030	50.0000	50.1	
	32 3&4-Methylphenol	108	9.614	9.656	(1.147)	523466	50.0000	50.5	
$	33 Nitrobenzene-D5	82	9.676	9.707	(0.853)	483453	50.0000	51.5	
	34 Nitrobenzene	77	9.718	9.759	(0.857)	481555	50.0000	51.3	
	35 N-Nitrosopiperidine	114	10.080	10.121	(0.889)	270831	50.0000	50.8	
	36 Isophorone	82	10.339	10.390	(0.911)	924416	50.0000	50.4	
	37 2-Nitrophenol	139	10.483	10.504	(0.924)	279510	50.0000	50.7	
	38 2,4-Dimethylphenol	107	10.794	10.835	(0.952)	504414	50.0000	53.4	
	40 Bis(2-Chloroethoxy)methane	93	10.949	10.991	(0.965)	683939	50.0000	54.5	
	39 O,O,O-Triethylphosphorothioat	198	10.929	10.949	(0.964)	204737	50.0000	51.0	
	41 2,4-Dichlorophenol	162	11.146	11.167	(0.983)	426559	50.0000	52.3	
	42 1,2,4-Trichlorobenzene	180	11.249	11.260	(0.992)	438831	50.0000	51.8	
*	44 Naphthalene-D8	136	11.343	11.353	(1.000)	1217246	40.0000		
	43 Benzoic acid	122	11.301	11.488	(0.996)	179210	50.0000	45.2(Q)	
	45 Naphthalene	128	11.384	11.415	(1.004)	1266077	50.0000	51.3	
	49 A,A-Dimethylphenethylamine	58	11.839	12.140	(1.044)	1236920	50.0000	55.4(M)	M9
	47 Hexachloropropene	213	11.643	11.653	(1.026)	250177	50.0000	51.4	
	48 2,6-Dichlorophenol	162	11.653	11.684	(1.027)	364227	50.0000	51.6	
	46 4-Chloroaniline	127	11.643	11.674	(1.026)	538097	50.0000	53.1	
	50 Hexachlorobutadiene	225	11.798	11.808	(1.040)	218439	50.0000	51.8	
	51 N-Nitroso-Di-N-Butylamine	84	12.564	12.605	(1.108)	355110	50.0000	51.0	
	53 Caprolactam	113	12.626	12.802	(1.113)	157385	50.0000	49.1(Q)	
	52 p-Phenylenediamine	108	12.574	12.626	(1.109)	408617	50.0000	53.8	
	54 Isosafrole	162	12.999	13.019	(1.146)	351472	50.0000	51.3	
	56 2-Methylnaphthalene	142	13.102	13.133	(1.155)	1016536	50.0000	50.6	
	55 4-Chloro-3-Methylphenol	107	13.050	13.092	(1.151)	433081	50.0000	53.4(Q)	
	57 1-Methylnaphthalene	142	13.330	13.361	(1.175)	858061	50.0000	51.9	
	59 1,2,4,5-Tetrachlorobenzene	216	13.537	13.568	(0.865)	379779	50.0000	48.8	
	60 Hexachlorocyclopentadiene	237	13.557	13.578	(0.866)	228736	50.0000	53.5	
	62 2,4,6-Trichlorophenol	196	13.920	13.951	(0.890)	292159	50.0000	53.2	
$	64 2-Fluorobiphenyl	172	14.096	14.116	(0.901)	830050	50.0000	51.5	
	63 2,4,5-Trichlorophenol	196	14.065	14.075	(0.899)	288335	50.0000	51.7	
	61 Safrole	104	13.713	13.723	(0.876)	33357	50.0000	50.3	
	65 2-Chloronaphthalene	162	14.282	14.313	(0.913)	1048803	50.0000	49.4	
	66 1,1'-Biphenyl	154	14.303	14.334	(0.914)	930154	50.0000	50.2	
	67 1-Chloronaphthalene	162	14.323	14.355	(0.915)	797922	50.0000	51.0	
	68 Diphenylether	170	14.592	14.613	(0.933)	548386	50.0000	50.7	
	69 2-Nitroaniline	65	14.655	14.686	(0.937)	265743	50.0000	51.4	
	70 1,4-Naphthoquinone	158	14.758	14.779	(0.943)	185679	50.0000	39.8	
	71 1,4-Dinitrobenzene	75	14.996	15.038	(0.958)	170941	50.0000	52.2	
	74 Acenaphthylene	152	15.276	15.307	(0.976)	1284950	50.0000	51.1	
	73 Dimethyl Phthalate	163	15.214	15.276	(0.972)	905798	50.0000	50.9	
	72 1,3-Dinitrobenzene	168	15.214	15.255	(0.972)	144501	50.0000	51.8(Q)	
	75 2,6-Dinitrotoluene	165	15.296	15.338	(0.978)	203469	50.0000	51.7	
	76 1,2-Dinitrobenzene	50	15.389	15.441	(0.983)	142407	50.0000	50.4	

11:03 am, Jan 20, 2015

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	77 Acenaphthene-D10	164	15.648	15.659	(1.000)	641042	40.0000		
	79 Acenaphthene	153	15.731	15.752	(1.005)	760682	50.0000	49.8	
	78 3-Nitroaniline	138	15.700	15.762	(1.003)	270474	50.0000	54.8	
	80 2,4-Dinitrophenol	184	15.990	16.042	(1.022)	125673	50.0000	47.9	
	82 Dibenzofuran	168	16.166	16.197	(1.033)	1090719	50.0000	50.6	
	81 Pentachlorobenzene	250	16.093	16.124	(1.028)	349292	50.0000	50.3	
	84 1-Naphthylamine	143	16.393	16.435	(1.048)	981273	50.0000	51.6	
	83 2,4-Dinitrotoluene	165	16.300	16.362	(1.042)	283006	50.0000	51.3	
	85 2,3,5,6-Tetrachlorophenol	232	16.476	16.507	(1.053)	226047	50.0000	51.8	
	88 2-Naphthylamine	143	16.611	16.663	(1.062)	841077	50.0000	49.7	
	86 4-Nitrophenol	139	16.507	16.476	(1.055)	198759	50.0000	58.6	
	87 2,3,4,6-Tetrachlorophenol	232	16.590	16.632	(1.060)	213229	50.0000	50.6	
	90 Fluorene	166	17.014	17.046	(1.087)	848725	50.0000	49.3	
	89 Diethylphthalate	149	16.994	17.035	(1.086)	930005	50.0000	49.9	
	91 4-Chlorophenyl-phenylether	204	17.118	17.139	(1.094)	415235	50.0000	51.1	
	92 O,O-diethyl-o-2-pyrazinylphos	107	17.170	17.222	(1.097)	184872	50.0000	50.0	
	94 5-Nitro-O-Toluidine	152	17.180	17.242	(1.098)	279563	50.0000	50.9	
	95 4-Nitroaniline	138	17.242	17.315	(1.102)	253955	50.0000	52.8	
	96 4,6-Dinitro-2-Methylphenol	198	17.304	17.356	(0.896)	160939	50.0000	52.6	
	97 N-Nitrosodiphenylamine	169	17.449	17.491	(0.904)	715459	50.0000	50.9	
	98 N-Nitrosodiphenylamine/DPA	169	17.449	17.491	(0.904)	715459	50.0000	50.9	
	99 1,2-Diphenylhydrazine	77	17.501	17.532	(0.906)	941088	50.0000	50.2	
	100 Azobenzene	77	17.501	17.532	(0.906)	941088	50.0000	50.4	
$	101 2,4,6-Tribromophenol	330	17.635	17.667	(1.127)	139189	50.0000	51.3	
	93 Sulfotepp	97	17.170	17.222	(0.889)	213070	50.0000	51.4	
	103 Diallate	86	18.236	18.257	(0.944)	354458	50.0000	52.4	
	104 4-Bromophenyl-phenylether	248	18.308	18.339	(0.948)	234287	50.0000	50.3	
	102 Phorate	75	18.225	18.267	(0.944)	562175	50.0000	53.4	
	105 1,3,5-Trinitrobenzene	213	18.319	18.370	(0.949)	155832	50.0000	56.7	
	107 Phenacetin	108	18.432	18.515	(0.954)	499500	50.0000	53.0	
	106 Hexachlorobenzene	284	18.401	18.432	(0.953)	287226	50.0000	52.2	
	108 Dimethoate	87	18.660	18.722	(0.966)	373266	50.0000	55.7	
	109 Atrazine	200	18.940	18.971	(0.981)	211612	50.0000	56.9	
	112 4-Aminobiphenyl	169	18.981	19.022	(0.983)	727069	50.0000	54.2	
	111 Pentachlorophenol	266	18.981	19.012	(0.983)	164797	50.0000	54.3	
	110 Pentachloronitrobenzene	237	18.971	18.991	(0.982)	106432	50.0000	52.0	
*	114 Phenanthrene-D10	188	19.312	19.333	(1.000)	958107	40.0000		
	113 Pronamide	173	19.312	19.354	(1.000)	373045	50.0000	52.5	
	115 Phenanthrene	178	19.374	19.405	(1.003)	1265326	50.0000	51.1	
	116 Anthracene	178	19.498	19.530	(1.010)	1295441	50.0000	52.5	
	118 Disulfoton	88	19.540	19.561	(1.012)	471886	50.0000	48.4	
	117 Dinoseb	211	19.540	19.561	(1.012)	189173	50.0000	52.1	
	119 Carbazole	167	19.995	20.026	(1.035)	1195777	50.0000	54.5	
	120 Methyl Parathion	109	20.440	20.461	(1.058)	329298	50.0000	56.3	
	121 Di-n-butylphthalate	149	21.113	21.134	(1.093)	1654304	50.0000	54.1	
	122 4-Nitroquinoline-1-Oxide	190	21.361	21.393	(1.106)	89054	50.0000	50.7	
	123 Ethyl Parathion	291	21.475	21.496	(1.112)	82102	50.0000	55.4	
	124 Methapyrilene	97	21.724	21.745	(1.125)	356883	50.0000	57.7	
	125 Isodrin	193	21.931	21.941	(1.136)	173043	50.0000	53.9	
	126 Fluoranthene	202	22.324	22.345	(1.156)	1258377	50.0000	53.9	
	128 Pyrene	202	22.852	22.873	(0.882)	1310162	50.0000	50.2	
	127 Benzidine	184	22.821	22.831	(0.881)	367317	50.0000	58.1	
$	129 Terphenyl-D14	244	23.432	23.442	(0.905)	823346	50.0000	50.3	
	130 Aramite	185	23.752	23.752	(0.917)	91666	50.0000	52.6	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9207.D
Report Date: 13-Jan-2015 10:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
131	p-Dimethylaminoazobenzene	225	23.814	23.835	(0.920)	241054	50.0000	51.2	
132	Chlorobenzilate	251	24.001	24.011	(0.927)	347182	50.0000	51.6	
134	3,3'-Dimethylbenzidine	212	24.653	24.663	(0.952)	325854	50.0000	54.4	
135	Butylbenzylphthalate	149	24.798	24.819	(0.958)	669053	50.0000	51.6	
136	Bis(2-ethylhexyl)adipate	129	25.201	25.212	(0.973)	592912	50.0000	51.8	
137	2-Acetylaminofluorene	181	25.295	25.326	(0.977)	385922	50.0000	54.2	
138	Benzo(a)anthracene	228	25.874	25.885	(0.999)	913004	50.0000	50.4	
* 139	Chrysene-D12	240	25.895	25.916	(1.000)	749410	40.0000		
141	Chrysene	228	25.957	25.978	(1.002)	833691	50.0000	50.7	
140	3,3'-Dichlorobenzidine	252	25.957	25.957	(1.002)	280453	50.0000	51.0	
142	bis(2-Ethylhexyl)phthalate	149	26.381	26.392	(1.019)	936225	50.0000	52.8	
144	Di-n-octylphthalate	149	27.913	27.924	(0.957)	1418003	50.0000	48.3	
145	Benzo(b)fluoranthene	252	28.379	28.400	(0.973)	708795	50.0000	48.5	
146	7,12-Dimethylbenz(A)Anthracen	256	28.400	28.410	(0.974)	371065	50.0000	49.1	
147	Benzo(k)fluoranthene	252	28.441	28.462	(0.975)	776344	50.0000	50.9(H)	
148	Benzo(a)pyrene	252	29.041	29.052	(0.996)	671651	50.0000	51.7	
* 150	Perylene-D12	264	29.165	29.166	(1.000)	548711	40.0000		
151	3-Methylcholanthrene	268	29.828	29.828	(1.023)	317460	50.0000	52.0	
152	Dibenz(a,j)acridine	279	30.987	30.977	(1.062)	350835	50.0000	53.2	
153	Indeno(1,2,3-cd)pyrene	276	31.298	31.308	(1.073)	382375	50.0000	52.4	
154	Dibenzo(a,h)anthracene	278	31.370	31.370	(1.076)	402334	50.0000	51.0	
155	Benzo(g,h,i)perylene	276	31.867	31.857	(1.093)	430933	50.0000	51.4	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9207.D
Date : 12-JAN-2015 13:06
Client ID:
Sample Info: WG156827-4
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u.i
Operator: JCG
Column diameter: 0.25
Y (x10^6)
Min
-1,4-Dioxane+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde+
-2-Chlorophenol
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl Alcohol
-1,2-Dichlorobenzene
-Bis(2-Chloroisopropyl)ether
-2-Methylphenol
-Acetophenone+
-o-Toluidine+
-Hexachloroethane
-4-Methylphenol
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-Bis(2-Chloroethoxy)methan+
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene
-Hexachlorobutadiene+
Hexachloropropene+
-N-Nitroso-Di-N-Butylamine+
-Isosafrole
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2-Fluorobiphenyl+
-Diphenylether
2-Chloronaphthalene+
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-Acenaphthylene+
-1,2-Dinitrobenzene
-Acenaphthene+
-Acenaphthene-D10
-2,4-Dinitrophenol
-2,4-Dinitrotoluene
-1-Naphthylamine
-2-Naphthylamine+
-Fluorene+
-4-Nitroaniline+
-4-Chlorophenyl-phenylether
-N-Nitrosodiphenylamine+
-1,2-Diphenylhydrazine
-2,4,6-Tribromophenol
-O,O,O-diethyl-o-2-pyrazinyl+
-4-Bromophenyl-phenylether
-Diallate+
-Phenacetin+
-Dimethoate
-Atrazine+
-Anthracene+
Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide
-Ethyl Parathion
-Methapyrilene
-Isodrin
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-2-Acetylaminofluorene
-Bis(2-ethylhexyl)adipate
-Benzo(a)anthracene+
-Chrysene+
-Kepone+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(k)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene
-Dibenz(a,h)anthracene
-Benzo(g,h,i)perylene
-Total PAHs
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Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9208.D
Report Date: 13-Jan-2015 10:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011215.b\U9208.D
Lab Smp Id: WG156827-2
Inj Date : 12-JAN-2015 13:57 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG156827-2
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011215.b\U8270C70.m
Meth Date : 13-Jan-2015 08:35 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 13:57 Cal File: U9208.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.649	2.649	(0.316)	43776	10.0000	10.7	
	3 Pyridine	79	3.156	3.125	(0.376)	131364	10.0000	10.1(a)	
	2 N-Nitrosodimethylamine	42	3.114	3.114	(0.372)	50023	10.0000	10.1	
	4 Ethyl Methacrylate	69	3.911	3.911	(0.467)	96731	10.0000	10.4	
	5 2-Picoline	93	4.481	4.429	(0.535)	126972	10.0000	9.77(a)	
	6 N-Nitrosomethylethylamine	88	4.729	4.708	(0.564)	54381	10.0000	9.45(a)	
	7 Methyl Methanesulfonate	80	5.340	5.350	(0.637)	69041	10.0000	10.0	
$	8 2-Fluorophenol	112	5.774	5.754	(0.689)	117288	10.0000	10.0	
	9 N-Nitrosodiethylamine	102	6.116	6.137	(0.730)	58902	10.0000	10.1	
	10 Ethyl Methanesulfonate	79	6.830	6.861	(0.815)	92901	10.0000	10.2	
	11 Benzaldehyde	77	7.430	7.420	(0.886)	39545	10.0000	14.1	
	13 Pentachloroethane	117	7.741	7.741	(0.923)	47448	10.0000	10.9	
	12 Aniline	93	7.699	7.720	(0.919)	176942	10.0000	10.7(a)	
	16 Bis(2-Chloroethyl)ether	93	7.896	7.917	(0.942)	111850	10.0000	11.4	
$	14 Phenol-D6	99	7.875	7.865	(0.940)	131201	10.0000	10.4	
	15 Phenol	94	7.896	7.896	(0.942)	145658	10.0000	10.8	
	17 2-Chlorophenol	128	7.989	7.989	(0.953)	120889	10.0000	10.8	
	18 1,3-Dichlorobenzene	146	8.248	8.258	(0.984)	138211	10.0000	11.1	
*	19 1,4-Dichlorobenzene-D4	152	8.383	8.393	(1.000)	359514	40.0000		
	20 1,4-Dichlorobenzene	146	8.414	8.434	(1.004)	141356	10.0000	11.4	
	21 1,2-Dichlorobenzene	146	8.755	8.765	(1.044)	134666	10.0000	11.2	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9208.D
Report Date: 13-Jan-2015 10:04

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.828	8.869	(1.053)	76895	10.0000	10.0(a)	
	23 Bis(2-Chloroisopropyl)ether	45	9.148	9.159	(1.091)	156810	10.0000	11.0	
	24 2,2'-Oxybis(1-chloropropane)	45	9.148	9.159	(1.091)	156810	10.0000	11.0	
	25 2-Methylphenol	108	9.221	9.304	(1.100)	113024	10.0000	10.4	
	27 Acetophenone	105	9.355	9.386	(0.826)	165429	10.0000	10.9	
	31 Hexachloroethane	117	9.511	9.521	(1.135)	54126	10.0000	11.5	
	26 N-Nitrosopyrrolidine	100	9.304	9.469	(1.110)	55554	10.0000	10.4	
	29 o-Toluidine	106	9.438	9.480	(1.126)	182104	10.0000	11.7(a)	
	28 N-Nitrosomorpholine	56	9.397	9.500	(1.121)	83930	10.0000	11.5	
	30 N-Nitroso-di-n-propylamine	70	9.428	9.521	(1.125)	79473	10.0000	11.7	
	32 3&4-Methylphenol	108	9.635	9.656	(1.149)	118514	10.0000	10.3	
$	33 Nitrobenzene-D5	82	9.666	9.707	(0.853)	109393	10.0000	10.2	
	34 Nitrobenzene	77	9.718	9.759	(0.858)	121520	10.0000	11.4	
	35 N-Nitrosopiperidine	114	10.059	10.121	(0.888)	62267	10.0000	10.3	
	36 Isophorone	82	10.328	10.390	(0.911)	218750	10.0000	10.5	
	37 2-Nitrophenol	139	10.484	10.504	(0.925)	62694	10.0000	10.0	
	38 2,4-Dimethylphenol	107	10.815	10.835	(0.954)	115489	10.0000	10.7	
	40 Bis(2-Chloroethoxy)methane	93	10.949	10.991	(0.966)	136513	10.0000	9.56(a)	
	39 O,O,O-Triethylphosphorothioat	198	10.908	10.949	(0.963)	48827	10.0000	10.7	
	41 2,4-Dichlorophenol	162	11.218	11.167	(0.990)	92456	10.0000	9.97(a)	
	42 1,2,4-Trichlorobenzene	180	11.250	11.260	(0.993)	105217	10.0000	10.9	
*	44 Naphthalene-D8	136	11.332	11.353	(1.000)	1384723	40.0000		
	43 Benzoic acid	122	11.198	11.488	(0.988)	34392	10.0000	10.4(aQM)	M9
	45 Naphthalene	128	11.384	11.415	(1.005)	323169	10.0000	11.5	
	47 Hexachloropropene	213	11.643	11.653	(1.027)	62824	10.0000	11.3	
	48 2,6-Dichlorophenol	162	11.664	11.684	(1.029)	93969	10.0000	11.7	
	46 4-Chloroaniline	127	11.653	11.674	(1.028)	137217	10.0000	11.9	
	50 Hexachlorobutadiene	225	11.798	11.808	(1.041)	53422	10.0000	11.1	
	51 N-Nitroso-Di-N-Butylamine	84	12.554	12.605	(1.108)	84195	10.0000	10.6	
	53 Caprolactam	113	12.512	12.802	(1.104)	35115	10.0000	9.62(a)	
	52 p-Phenylenediamine	108	12.595	12.626	(1.111)	89809	10.0000	10.4(M)	M9
	54 Isosafrole	162	12.988	13.019	(1.146)	85256	10.0000	10.9	
	56 2-Methylnaphthalene	142	13.102	13.133	(1.156)	250893	10.0000	11.0(M)	M3
	55 4-Chloro-3-Methylphenol	107	13.071	13.092	(1.153)	94570	10.0000	10.2(Q)	
	57 1-Methylnaphthalene	142	13.330	13.361	(1.176)	215260	10.0000	11.4	
	59 1,2,4,5-Tetrachlorobenzene	216	13.547	13.568	(0.866)	97252	10.0000	9.14(a)	
	60 Hexachlorocyclopentadiene	237	13.547	13.578	(0.866)	48688	10.0000	10.4	
	62 2,4,6-Trichlorophenol	196	13.930	13.951	(0.890)	63979	10.0000	10.7	
$	64 2-Fluorobiphenyl	172	14.085	14.116	(0.900)	210789	10.0000	12.0	
	63 2,4,5-Trichlorophenol	196	14.096	14.075	(0.901)	64139	10.0000	10.6(a)	
	61 Safrole	104	13.723	13.723	(0.877)	6703	10.0000	9.28(aQ)	
	65 2-Chloronaphthalene	162	14.282	14.313	(0.913)	306531	10.0000	11.1	
	66 1,1'-Biphenyl	154	14.303	14.334	(0.914)	255075	10.0000	8.46(a)	
	67 1-Chloronaphthalene	162	14.313	14.355	(0.915)	210427	10.0000	12.3	
	68 Diphenylether	170	14.582	14.613	(0.932)	135959	10.0000	11.5	
	69 2-Nitroaniline	65	14.655	14.686	(0.937)	55841	10.0000	9.91(a)	
	70 1,4-Naphthoquinone	158	14.769	14.779	(0.944)	68391	10.0000	13.5	
	71 1,4-Dinitrobenzene	75	15.007	15.038	(0.959)	33123	10.0000	9.28(a)	
	74 Acenaphthylene	152	15.265	15.307	(0.976)	323271	10.0000	11.8	
	73 Dimethyl Phthalate	163	15.193	15.276	(0.971)	216862	10.0000	11.2(M)	M6
	72 1,3-Dinitrobenzene	168	15.214	15.255	(0.972)	31792	10.0000	10.5	
	75 2,6-Dinitrotoluene	165	15.276	15.338	(0.976)	45268	10.0000	10.6	
	76 1,2-Dinitrobenzene	50	15.379	15.441	(0.983)	32559	10.0000	10.6	
*	77 Acenaphthene-D10	164	15.648	15.659	(1.000)	698582	40.0000		

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
79	Acenaphthene	153	15.710	15.752	(1.004)	197695	10.0000	9.60(a)	
78	3-Nitroaniline	138	15.700	15.762	(1.003)	57099	10.0000	10.6(a)	
80	2,4-Dinitrophenol	184	16.011	16.042	(1.023)	17356	10.0000	8.98(a)	
82	Dibenzofuran	168	16.166	16.197	(1.033)	277080	10.0000	11.8	
81	Pentachlorobenzene	250	16.083	16.124	(1.028)	85804	10.0000	11.3	
84	1-Naphthylamine	143	16.383	16.435	(1.047)	235172	10.0000	11.3	
83	2,4-Dinitrotoluene	165	16.290	16.362	(1.041)	60856	10.0000	10.1	
85	2,3,5,6-Tetrachlorophenol	232	16.476	16.507	(1.053)	50486	10.0000	10.6	
88	2-Naphthylamine	143	16.590	16.663	(1.060)	219351	10.0000	11.9	
86	4-Nitrophenol	139	16.549	16.476	(1.058)	30491	10.0000	8.25(aQ)	
87	2,3,4,6-Tetrachlorophenol	232	16.590	16.632	(1.060)	53381	10.0000	11.6	
90	Fluorene	166	17.004	17.046	(1.087)	217197	10.0000	8.99(a)	
89	Diethylphthalate	149	16.973	17.035	(1.085)	239559	10.0000	8.50(a)	
91	4-Chlorophenyl-phenylether	204	17.108	17.139	(1.093)	101236	10.0000	11.4	
92	O,O-diethyl-o-2-pyrazinylphos	107	17.149	17.222	(1.096)	47100	10.0000	11.7(a)	
94	5-Nitro-O-Toluidine	152	17.170	17.242	(1.097)	67369	10.0000	11.2	
95	4-Nitroaniline	138	17.253	17.315	(1.103)	53277	10.0000	10.2(a)	
96	4,6-Dinitro-2-Methylphenol	198	17.304	17.356	(0.897)	28996	10.0000	7.74(a)	
97	N-Nitrosodiphenylamine	169	17.429	17.491	(0.903)	181765	10.0000	10.5	
98	N-Nitrosodiphenylamine/DPA	169	17.429	17.491	(0.903)	181765	10.0000	10.5	
99	1,2-Diphenylhydrazine	77	17.491	17.532	(0.906)	229590	10.0000	10.0(a)	
100	Azobenzene	77	17.491	17.532	(0.906)	224654	10.0000	9.82(a)	
$ 101	2,4,6-Tribromophenol	330	17.646	17.667	(1.128)	30122	10.0000	10.2	
93	Sulfotepp	97	17.139	17.222	(0.888)	54084	10.0000	10.6	
103	Diallate	86	18.215	18.257	(0.944)	93395	10.0000	11.3	
104	4-Bromophenyl-phenylether	248	18.298	18.339	(0.948)	58457	10.0000	10.2	
102	Phorate	75	18.215	18.267	(0.944)	143091	10.0000	11.1	
105	1,3,5-Trinitrobenzene	213	18.288	18.370	(0.947)	28603	10.0000	8.49(a)	
107	Phenacetin	108	18.391	18.515	(0.953)	116520	10.0000	10.1	
106	Hexachlorobenzene	284	18.381	18.432	(0.952)	71037	10.0000	10.5	
108	Dimethoate	87	18.619	18.722	(0.965)	92886	10.0000	8.17(a)	
109	Atrazine	200	18.909	18.971	(0.980)	58182	10.0000	12.8	
112	4-Aminobiphenyl	169	18.971	19.022	(0.983)	204595	10.0000	8.70(a)	
111	Pentachlorophenol	266	18.981	19.012	(0.983)	37373	10.0000	10.0(a)	
110	Pentachloronitrobenzene	237	18.960	18.991	(0.982)	26560	10.0000	10.6	
* 114	Phenanthrene-D10	188	19.302	19.333	(1.000)	1174112	40.0000		
113	Pronamide	173	19.292	19.354	(0.999)	91259	10.0000	10.5	
115	Phenanthrene	178	19.354	19.405	(1.003)	344791	10.0000	11.4	
116	Anthracene	178	19.488	19.530	(1.010)	337139	10.0000	11.2	
118	Disulfoton	88	19.530	19.561	(1.012)	129911	10.0000	10.9	
117	Dinoseb	211	19.530	19.561	(1.012)	45371	10.0000	10.2	
119	Carbazole	167	19.995	20.026	(1.036)	296197	10.0000	11.0	
120	Methyl Parathion	109	20.430	20.461	(1.058)	79224	10.0000	11.0	
121	Di-n-butylphthalate	149	21.103	21.134	(1.093)	422554	10.0000	11.3	
123	Ethyl Parathion	291	21.465	21.496	(1.112)	18384	10.0000	10.1(a)	
124	Methapyrilene	97	21.724	21.745	(1.125)	93368	10.0000	12.3	
125	Isodrin	193	21.921	21.941	(1.136)	41767	10.0000	10.6	
126	Fluoranthene	202	22.314	22.345	(1.156)	338435	10.0000	11.8	
128	Pyrene	202	22.842	22.873	(0.882)	362867	10.0000	10.4	
$ 129	Terphenyl-D14	244	23.421	23.442	(0.904)	226249	10.0000	10.3	
130	Aramite	185	23.742	23.752	(0.917)	22706	10.0000	9.69(a)	
131	p-Dimethylaminoazobenzene	225	23.804	23.835	(0.919)	60428	10.0000	9.56(a)	
132	Chlorobenzilate	251	23.991	24.011	(0.926)	88511	10.0000	9.80(a)	
135	Butylbenzylphthalate	149	24.787	24.819	(0.957)	186232	10.0000	10.7	

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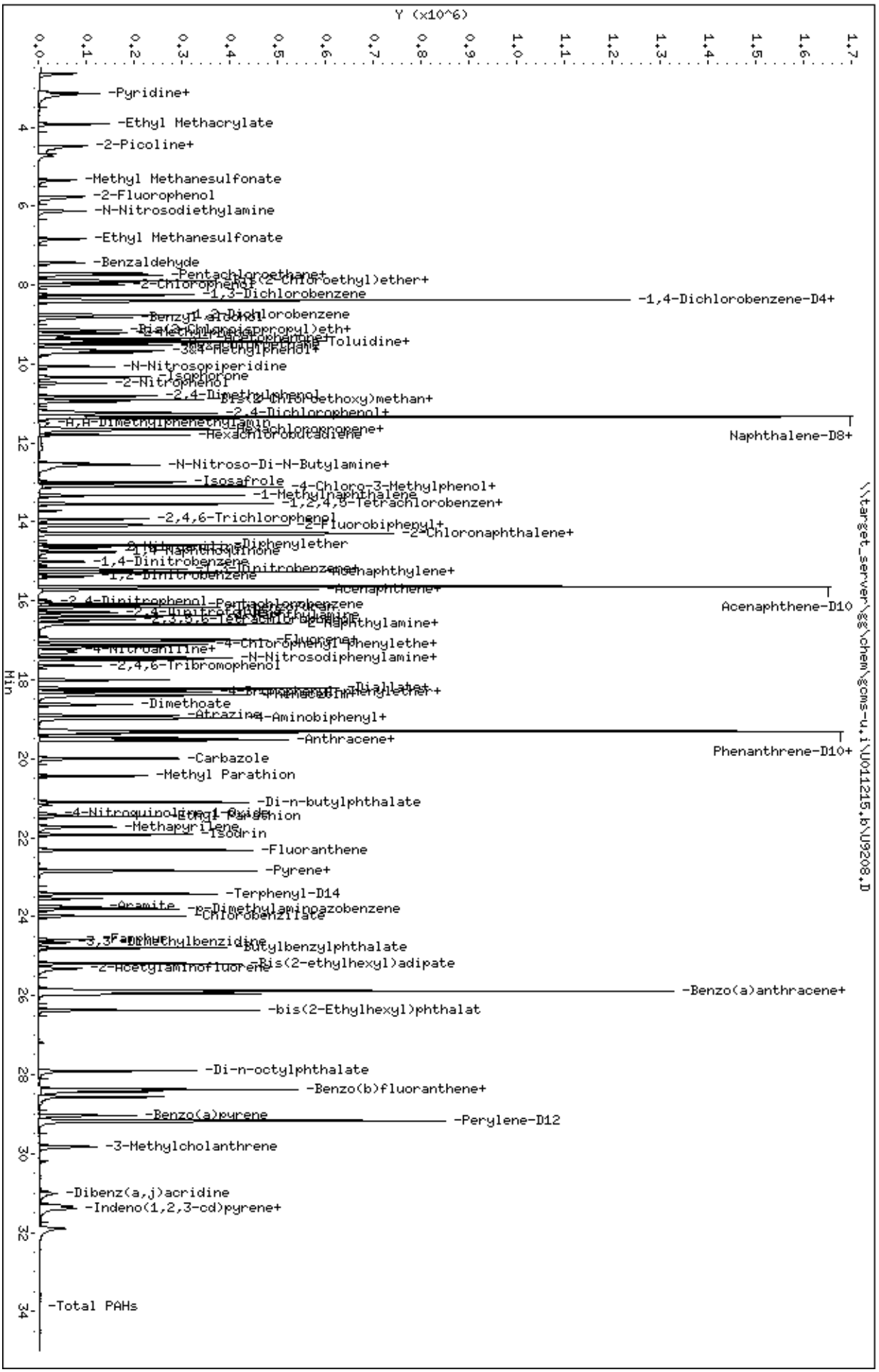
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
136	Bis(2-ethylhexyl)adipate	129	25.181	25.212	(0.972)	154533	10.0000	10.0	
137	2-Acetylaminofluorene	181	25.315	25.326	(0.978)	85484	10.0000	8.93(a)	
138	Benzo(a)anthracene	228	25.864	25.885	(0.999)	262756	10.0000	10.8	
* 139	Chrysene-D12	240	25.895	25.916	(1.000)	1006789	40.0000		
141	Chrysene	228	25.947	25.978	(1.002)	265426	10.0000	12.0	
140	3,3'-Dichlorobenzidine	252	25.957	25.957	(1.002)	77178	10.0000	10.4	
142	bis(2-Ethylhexyl)phthalate	149	26.371	26.392	(1.018)	260354	10.0000	10.9	
144	Di-n-octylphthalate	149	27.903	27.924	(0.956)	403276	10.0000	9.88(a)	
145	Benzo(b)fluoranthene	252	28.379	28.400	(0.973)	223073	10.0000	11.0	
146	7,12-Dimethylbenz(A)Anthracen	256	28.379	28.410	(0.973)	112864	10.0000	10.7	
147	Benzo(k)fluoranthene	252	28.431	28.462	(0.974)	224041	10.0000	10.6(H)	
148	Benzo(a)pyrene	252	29.041	29.052	(0.995)	183642	10.0000	10.2	
* 150	Perylene-D12	264	29.176	29.166	(1.000)	762137	40.0000		
151	3-Methylcholanthrene	268	29.828	29.828	(1.022)	87083	10.0000	10.3	
152	Dibenz(a,j)acridine	279	31.008	30.977	(1.063)	83415	10.0000	9.10(a)	
153	Indeno(1,2,3-cd)pyrene	276	31.318	31.308	(1.073)	142336	10.0000	13.1	
154	Dibenzo(a,h)anthracene	278	31.391	31.370	(1.076)	110488	10.0000	10.1	
155	Benzo(g,h,i)perylene	276	31.898	31.857	(1.093)	124328	10.0000	10.7	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\target_server\gg\chem\gcms-u,i\U011215,b\U9208.D
Date : 12-JAN-2015 13:57
Client ID:
Sample Info: WG156827-2
Volume Injected (uL): 1.0
Column phase: ZB5-MS

Instrument: gcms-u,i
Operator: JCG
Column diameter: 0.25

\\target_server\gg\chem\gcms-u,i\U011215,b\U9208.D

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9209.D
Report Date: 13-Jan-2015 10:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011215.b\U9209.D
Lab Smp Id: WG156827-3
Inj Date : 12-JAN-2015 14:41 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG156827-3
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011215.b\U8270C70.m
Meth Date : 13-Jan-2015 08:35 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 14:41 Cal File: U9209.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.649	2.649	(0.316)	91624	25.0000	25.6	
	3 Pyridine	79	3.135	3.125	(0.374)	304158	25.0000	26.9(a)	
	2 N-Nitrosodimethylamine	42	3.104	3.114	(0.370)	106656	25.0000	24.7	
	4 Ethyl Methacrylate	69	3.912	3.911	(0.467)	213679	25.0000	26.5	
	5 2-Picoline	93	4.460	4.429	(0.532)	291973	25.0000	25.8	
	6 N-Nitrosomethylethylamine	88	4.719	4.708	(0.563)	126297	25.0000	25.2	
	7 Methyl Methanesulfonate	80	5.330	5.350	(0.636)	147978	25.0000	24.6	
$	8 2-Fluorophenol	112	5.764	5.754	(0.688)	262548	25.0000	25.8	
	9 N-Nitrosodiethylamine	102	6.116	6.137	(0.730)	133914	25.0000	26.3	
	10 Ethyl Methanesulfonate	79	6.820	6.861	(0.814)	200841	25.0000	25.4	
	11 Benzaldehyde	77	7.420	7.420	(0.885)	76267	25.0000	31.3	
	13 Pentachloroethane	117	7.741	7.741	(0.923)	103235	25.0000	27.2	
	12 Aniline	93	7.700	7.720	(0.919)	378927	25.0000	26.3	
	16 Bis(2-Chloroethyl)ether	93	7.897	7.917	(0.942)	233889	25.0000	27.4	
$	14 Phenol-D6	99	7.855	7.865	(0.937)	290092	25.0000	26.4	
	15 Phenol	94	7.886	7.896	(0.941)	314868	25.0000	26.9	
	17 2-Chlorophenol	128	7.979	7.989	(0.952)	261837	25.0000	26.8	
	18 1,3-Dichlorobenzene	146	8.248	8.258	(0.984)	299314	25.0000	27.5	
*	19 1,4-Dichlorobenzene-D4	152	8.383	8.393	(1.000)	312954	40.0000		
	20 1,4-Dichlorobenzene	146	8.424	8.434	(1.005)	298790	25.0000	27.8	
	21 1,2-Dichlorobenzene	146	8.756	8.765	(1.044)	286954	25.0000	27.5	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9209.D
Report Date: 13-Jan-2015 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.818	8.869	(1.052)	168738	25.0000	25.2	
	23 Bis(2-Chloroisopropyl)ether	45	9.139	9.159	(1.090)	336951	25.0000	27.2	
	24 2,2'-Oxybis(1-chloropropane)	45	9.139	9.159	(1.090)	336951	25.0000	27.2	
	25 2-Methylphenol	108	9.221	9.304	(1.100)	244304	25.0000	25.8	
	27 Acetophenone	105	9.356	9.386	(0.826)	348356	25.0000	26.9	
	31 Hexachloroethane	117	9.511	9.521	(1.135)	117356	25.0000	28.6	
	26 N-Nitrosopyrrolidine	100	9.304	9.469	(1.110)	128223	25.0000	27.7	
	29 o-Toluidine	106	9.439	9.480	(1.126)	374472	25.0000	27.6	
	28 N-Nitrosomorpholine	56	9.408	9.500	(1.122)	177220	25.0000	27.9	
	30 N-Nitroso-di-n-propylamine	70	9.439	9.521	(1.126)	164980	25.0000	27.9	
	32 3&4-Methylphenol	108	9.615	9.656	(1.147)	261266	25.0000	26.1	
$	33 Nitrobenzene-D5	82	9.666	9.707	(0.853)	241141	25.0000	26.5	
	34 Nitrobenzene	77	9.708	9.759	(0.857)	245559	25.0000	27.0	
	35 N-Nitrosopiperidine	114	10.060	10.121	(0.888)	135762	25.0000	26.2	
	36 Isophorone	82	10.329	10.390	(0.911)	471869	25.0000	26.5	
	37 2-Nitrophenol	139	10.484	10.504	(0.925)	141526	25.0000	26.5	
	38 2,4-Dimethylphenol	107	10.795	10.835	(0.953)	253110	25.0000	27.6	
	40 Bis(2-Chloroethoxy)methane	93	10.939	10.991	(0.965)	316242	25.0000	26.0	
	39 O,O,O-Triethylphosphorothioat	198	10.919	10.949	(0.963)	103029	25.0000	26.4	
	41 2,4-Dichlorophenol	162	11.167	11.167	(0.985)	208886	25.0000	26.4	
	42 1,2,4-Trichlorobenzene	180	11.250	11.260	(0.993)	229247	25.0000	27.9	
*	44 Naphthalene-D8	136	11.333	11.353	(1.000)	1181157	40.0000		
	43 Benzoic acid	122	11.229	11.488	(0.991)	79806	25.0000	23.1(aM)	M9
	45 Naphthalene	128	11.385	11.415	(1.005)	691115	25.0000	28.9	
	49 A,A-Dimethylphenethylamine	58	11.529	12.140	(1.017)	705433	25.0000	32.6(M)	M9
	47 Hexachloropropene	213	11.633	11.653	(1.026)	130057	25.0000	27.5	
	48 2,6-Dichlorophenol	162	11.654	11.684	(1.028)	194221	25.0000	28.4	
	46 4-Chloroaniline	127	11.643	11.674	(1.027)	291744	25.0000	29.7	
	50 Hexachlorobutadiene	225	11.799	11.808	(1.041)	116381	25.0000	28.4	
	51 N-Nitroso-Di-N-Butylamine	84	12.554	12.605	(1.108)	212231	25.0000	31.4	
	53 Caprolactam	113	12.554	12.802	(1.108)	78148	25.0000	25.1(Q)	
	52 p-Phenylenediamine	108	12.575	12.626	(1.110)	233285	25.0000	31.6	
	54 Isosafrole	162	12.989	13.019	(1.146)	181254	25.0000	27.3	
	56 2-Methylnaphthalene	142	13.103	13.133	(1.156)	558385	25.0000	28.7	
	55 4-Chloro-3-Methylphenol	107	13.061	13.092	(1.153)	209928	25.0000	26.6(Q)	
	57 1-Methylnaphthalene	142	13.330	13.361	(1.176)	446866	25.0000	27.9	
	59 1,2,4,5-Tetrachlorobenzene	216	13.537	13.568	(0.866)	203976	25.0000	23.9	
	60 Hexachlorocyclopentadiene	237	13.548	13.578	(0.866)	111484	25.0000	27.7	
	62 2,4,6-Trichlorophenol	196	13.920	13.951	(0.890)	142944	25.0000	27.7	
$	64 2-Fluorobiphenyl	172	14.086	14.116	(0.901)	429325	25.0000	28.3	
	63 2,4,5-Trichlorophenol	196	14.065	14.075	(0.899)	137403	25.0000	26.2	
	61 Safrole	104	13.713	13.723	(0.877)	15997	25.0000	25.7(Q)	
	65 2-Chloronaphthalene	162	14.272	14.313	(0.913)	560847	25.0000	26.0	
	66 1,1'-Biphenyl	154	14.293	14.334	(0.914)	516456	25.0000	23.4	
	67 1-Chloronaphthalene	162	14.314	14.355	(0.915)	461290	25.0000	31.4	
	68 Diphenylether	170	14.583	14.613	(0.932)	279409	25.0000	27.5	
	69 2-Nitroaniline	65	14.645	14.686	(0.936)	127704	25.0000	26.3	
	70 1,4-Naphthoquinone	158	14.759	14.779	(0.944)	147869	25.0000	33.8(M)	M9
	71 1,4-Dinitrobenzene	75	14.997	15.038	(0.959)	79460	25.0000	25.8	
	74 Acenaphthylene	152	15.266	15.307	(0.976)	675239	25.0000	28.6	
	73 Dimethyl Phthalate	163	15.204	15.276	(0.972)	462847	25.0000	27.7	
	72 1,3-Dinitrobenzene	168	15.204	15.255	(0.972)	69846	25.0000	26.6	
	75 2,6-Dinitrotoluene	165	15.276	15.338	(0.977)	99085	25.0000	26.8	
	76 1,2-Dinitrobenzene	50	15.380	15.441	(0.983)	70724	25.0000	26.6	

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11:03 am, Jan 20, 2015

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9209.D
Report Date: 13-Jan-2015 10:04

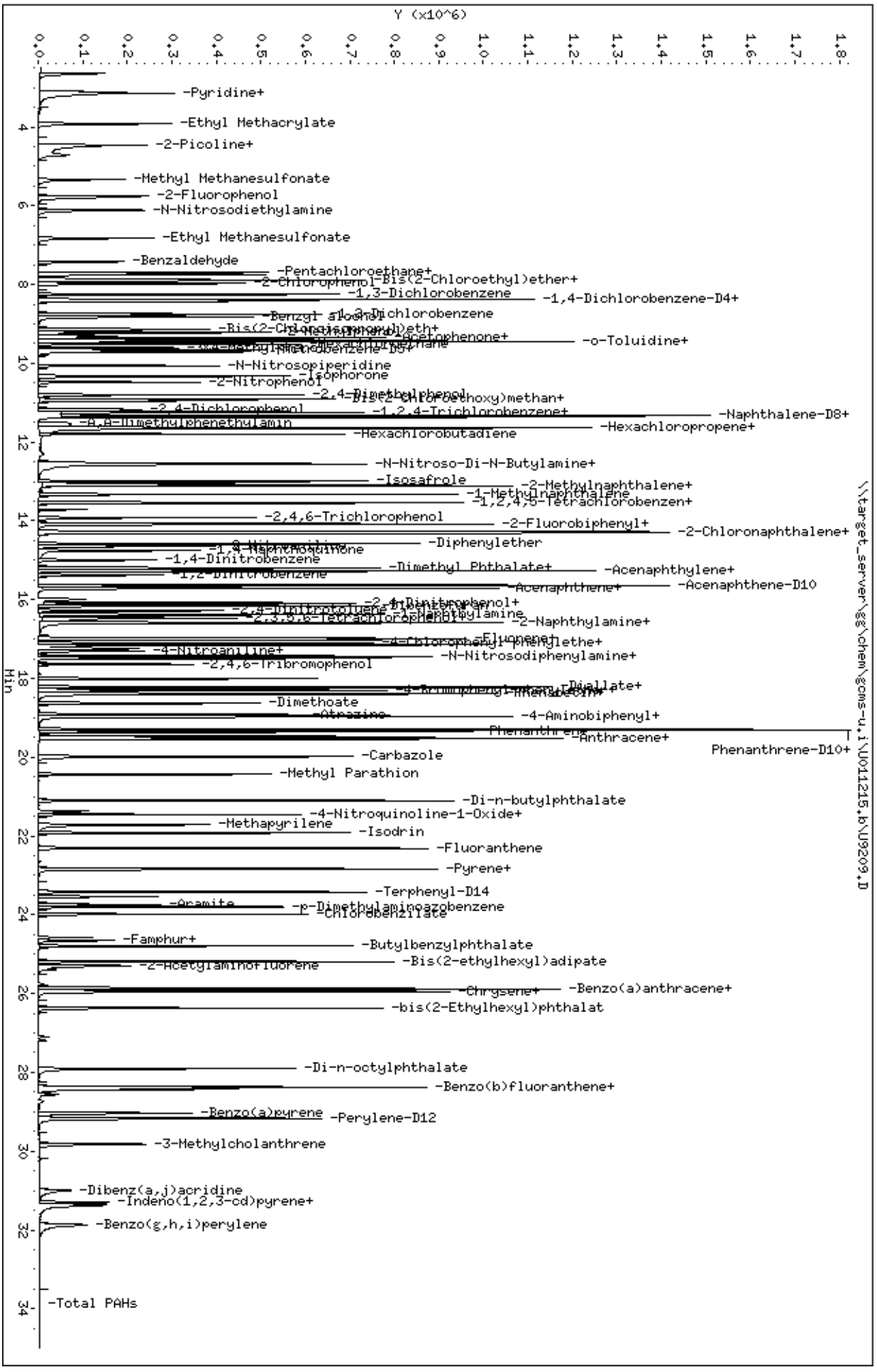
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	77 Acenaphthene-D10	164	15.638	15.659	(1.000)	602505	40.0000		
	79 Acenaphthene	153	15.721	15.752	(1.005)	409561	25.0000	25.3	
	78 3-Nitroaniline	138	15.690	15.762	(1.003)	131278	25.0000	28.3	
	80 2,4-Dinitrophenol	184	15.990	16.042	(1.023)	51198	25.0000	22.6(a)	
	82 Dibenzofuran	168	16.166	16.197	(1.034)	571400	25.0000	28.2	
	81 Pentachlorobenzene	250	16.083	16.124	(1.028)	182432	25.0000	28.0	
	84 1-Naphthylamine	143	16.384	16.435	(1.048)	501836	25.0000	28.1	
	83 2,4-Dinitrotoluene	165	16.280	16.362	(1.041)	140045	25.0000	27.0	
	85 2,3,5,6-Tetrachlorophenol	232	16.477	16.507	(1.054)	111624	25.0000	27.2	
	88 2-Naphthylamine	143	16.591	16.663	(1.061)	465830	25.0000	29.3	
	86 4-Nitrophenol	139	16.508	16.476	(1.056)	84426	25.0000	26.5	
	87 2,3,4,6-Tetrachlorophenol	232	16.580	16.632	(1.060)	113153	25.0000	28.6	
	90 Fluorene	166	17.005	17.046	(1.087)	460874	25.0000	24.2	
	89 Diethylphthalate	149	16.974	17.035	(1.085)	499955	25.0000	22.9	
	91 4-Chlorophenyl-phenylether	204	17.108	17.139	(1.094)	210823	25.0000	27.6	
	92 O,O-diethyl-o-2-pyrazinylphos	107	17.150	17.222	(1.097)	97670	25.0000	28.1	
	94 5-Nitro-O-Toluidine	152	17.160	17.242	(1.097)	144902	25.0000	28.1	
	95 4-Nitroaniline	138	17.232	17.315	(1.102)	118305	25.0000	26.2	
	96 4,6-Dinitro-2-Methylphenol	198	17.294	17.356	(0.896)	76442	25.0000	24.6(a)	
	97 N-Nitrosodiphenylamine	169	17.429	17.491	(0.903)	382961	25.0000	26.8	
	98 N-Nitrosodiphenylamine/DPA	169	17.429	17.491	(0.903)	382961	25.0000	26.8	
	99 1,2-Diphenylhydrazine	77	17.491	17.532	(0.906)	482166	25.0000	25.4	
	100 Azobenzene	77	17.491	17.532	(0.906)	482375	25.0000	25.5	
$	101 2,4,6-Tribromophenol	330	17.636	17.667	(1.128)	71049	25.0000	27.8	
	93 Sulfotepp	97	17.150	17.222	(0.888)	113009	25.0000	26.9	
	103 Diallate	86	18.226	18.257	(0.944)	193131	25.0000	28.2	
	104 4-Bromophenyl-phenylether	248	18.298	18.339	(0.948)	125760	25.0000	26.6	
	102 Phorate	75	18.216	18.267	(0.944)	303597	25.0000	28.4	
	105 1,3,5-Trinitrobenzene	213	18.288	18.370	(0.947)	74606	25.0000	26.8	
	107 Phenacetin	108	18.392	18.515	(0.953)	250996	25.0000	26.2	
	106 Hexachlorobenzene	284	18.392	18.432	(0.953)	147072	25.0000	26.4	
	108 Dimethoate	87	18.630	18.722	(0.965)	190537	25.0000	21.6	
	109 Atrazine	200	18.919	18.971	(0.980)	119351	25.0000	31.6	
	112 4-Aminobiphenyl	169	18.971	19.022	(0.983)	411623	25.0000	24.7	
	111 Pentachlorophenol	266	18.971	19.012	(0.983)	78757	25.0000	25.6	
	110 Pentachloronitrobenzene	237	18.961	18.991	(0.982)	56078	25.0000	27.0	
*	114 Phenanthrene-D10	188	19.302	19.333	(1.000)	971568	40.0000		
	113 Pronamide	173	19.292	19.354	(0.999)	194163	25.0000	27.0	
	115 Phenanthrene	178	19.354	19.405	(1.003)	684494	25.0000	27.3	
	116 Anthracene	178	19.489	19.530	(1.010)	683156	25.0000	27.3	
	118 Disulfoton	88	19.530	19.561	(1.012)	255738	25.0000	25.9	
	117 Dinoseb	211	19.530	19.561	(1.012)	99380	25.0000	27.0	
	119 Carbazole	167	19.985	20.026	(1.035)	607008	25.0000	27.3	
	120 Methyl Parathion	109	20.431	20.461	(1.058)	171357	25.0000	28.9	
	121 Di-n-butylphthalate	149	21.103	21.134	(1.093)	868886	25.0000	28.0	
	122 4-Nitroquinoline-1-Oxide	190	21.372	21.393	(1.107)	28843	25.0000	19.4(a)	
	123 Ethyl Parathion	291	21.455	21.496	(1.112)	41081	25.0000	27.4	
	124 Methapyrilene	97	21.714	21.745	(1.125)	183320	25.0000	29.2	
	125 Isodrin	193	21.921	21.941	(1.136)	89655	25.0000	27.5	
	126 Fluoranthene	202	22.314	22.345	(1.156)	671469	25.0000	28.3	
	128 Pyrene	202	22.842	22.873	(0.882)	693711	25.0000	26.7	
	127 Benzidine	184	22.832	22.831	(0.882)	154587	25.0000	24.5(a)	
$	129 Terphenyl-D14	244	23.422	23.442	(0.905)	428199	25.0000	26.2	
	130 Aramite	185	23.743	23.752	(0.917)	47364	25.0000	27.2	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9209.D
Report Date: 13-Jan-2015 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
131	p-Dimethylaminoazobenzene	225	23.805	23.835	(0.920)	120198	25.0000	25.6	
132	Chlorobenzilate	251	23.991	24.011	(0.927)	174923	25.0000	26.1	
134	3,3'-Dimethylbenzidine	212	24.653	24.663	(0.952)	159371	25.0000	26.7	
135	Butylbenzylphthalate	149	24.788	24.819	(0.958)	333397	25.0000	25.8	
136	Bis(2-ethylhexyl)adipate	129	25.181	25.212	(0.973)	291698	25.0000	25.6	
137	2-Acetylaminofluorene	181	25.295	25.326	(0.977)	171565	25.0000	24.2	
138	Benzo(a)anthracene	228	25.864	25.885	(0.999)	465822	25.0000	25.8	
* 139	Chrysene-D12	240	25.885	25.916	(1.000)	746719	40.0000		
141	Chrysene	228	25.947	25.978	(1.002)	451810	25.0000	27.6	
140	3,3'-Dichlorobenzidine	252	25.947	25.957	(1.002)	143439	25.0000	26.2	
142	bis(2-Ethylhexyl)phthalate	149	26.372	26.392	(1.019)	445711	25.0000	25.2	
144	Di-n-octylphthalate	149	27.903	27.924	(0.957)	679392	25.0000	23.9	
145	Benzo(b)fluoranthene	252	28.369	28.400	(0.973)	357892	25.0000	25.3	
146	7,12-Dimethylbenz(A)Anthracen	256	28.379	28.410	(0.973)	191356	25.0000	26.1	
147	Benzo(k)fluoranthene	252	28.431	28.462	(0.975)	399068	25.0000	27.0(H)	
148	Benzo(a)pyrene	252	29.042	29.052	(0.996)	312222	25.0000	24.8	
* 150	Perylene-D12	264	29.166	29.166	(1.000)	531349	40.0000		
151	3-Methylcholanthrene	268	29.828	29.828	(1.023)	151254	25.0000	25.6	
152	Dibenz(a,j)acridine	279	30.998	30.977	(1.063)	162073	25.0000	25.4	
153	Indeno(1,2,3-cd)pyrene	276	31.309	31.308	(1.073)	172799	25.0000	23.9	
154	Dibenzo(a,h)anthracene	278	31.381	31.370	(1.076)	200301	25.0000	26.2	
155	Benzo(g,h,i)perylene	276	31.878	31.857	(1.093)	221013	25.0000	27.2	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9209.D
Date : 12-JAN-2015 14:41
Client ID:
Sample Info: WG156827-3
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u.i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U011215.b\U9209.D
Y (x10^6)
Min
-Pyridine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Pentachloroethane
-2-Chlorophenol
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol
-1,2-Dichlorobenzene
-o-Toluidine+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene+
-Naphthalene-D8+
-Hexachlorobutadiene
-Hexachloropropene+
-N-Nitroso-Di-N-Butylamine+
-Isosafrole
-2-Methylnaphthalene+
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2-Fluorobiphenyl+
-2-Chloronaphthalene+
-Diphenylether
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-Acenaphthylene+
-Acenaphthene+
-Acenaphthene-D10
-2,4-Dinitrophenol+
-2-Naphthylamine+
-Fluorene+
-4-Nitroaniline+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Diallate+
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Anthracene+
Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide+
-Methapyrilene
-Isodrin
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-2-Acetylaminofluorene
-Bis(2-ethylhexyl)adipate
-Chrysene+
-Benzo(a)anthracene+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
-Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9210.D
Report Date: 13-Jan-2015 10:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011215.b\U9210.D
Lab Smp Id: WG156827-5
Inj Date : 12-JAN-2015 15:25 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG156827-5
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011215.b\U8270C70.m
Meth Date : 13-Jan-2015 08:35 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 15:25 Cal File: U9210.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.639	2.649	(0.315)	297276	75.0000	73.7	
	3 Pyridine	79	3.125	3.125	(0.373)	916954	75.0000	71.9	
	2 N-Nitrosodimethylamine	42	3.104	3.114	(0.370)	369770	75.0000	75.8	
	4 Ethyl Methacrylate	69	3.912	3.911	(0.467)	668287	75.0000	73.3	
	5 2-Picoline	93	4.429	4.429	(0.528)	980930	75.0000	76.8	
	6 N-Nitrosomethylethylamine	88	4.709	4.708	(0.562)	427598	75.0000	75.6	
	7 Methyl Methanesulfonate	80	5.340	5.350	(0.637)	507706	75.0000	74.8	
$	8 2-Fluorophenol	112	5.764	5.754	(0.688)	863604	75.0000	75.1	
	9 N-Nitrosodiethylamine	102	6.127	6.137	(0.731)	420705	75.0000	73.2	
	10 Ethyl Methanesulfonate	79	6.841	6.861	(0.816)	662287	75.0000	74.1	
	11 Benzaldehyde	77	7.420	7.420	(0.885)	181560	75.0000	66.1	
	13 Pentachloroethane	117	7.741	7.741	(0.923)	313811	75.0000	73.2	
	12 Aniline	93	7.710	7.720	(0.920)	1206180	75.0000	74.2	
	16 Bis(2-Chloroethyl)ether	93	7.896	7.917	(0.942)	689703	75.0000	71.7	
$	14 Phenol-D6	99	7.865	7.865	(0.938)	910883	75.0000	73.5	
	15 Phenol	94	7.886	7.896	(0.941)	963148	75.0000	72.8	
	17 2-Chlorophenol	128	7.979	7.989	(0.952)	808622	75.0000	73.3	
	18 1,3-Dichlorobenzene	146	8.248	8.258	(0.984)	893789	75.0000	72.8	
*	19 1,4-Dichlorobenzene-D4	152	8.383	8.393	(1.000)	353376	40.0000		
	20 1,4-Dichlorobenzene	146	8.424	8.434	(1.005)	872649	75.0000	71.9	
	21 1,2-Dichlorobenzene	146	8.756	8.765	(1.044)	843533	75.0000	71.6	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9210.D
Report Date: 13-Jan-2015 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.849	8.869	(1.056)	554350	75.0000	73.4	
	23 Bis(2-Chloroisopropyl)ether	45	9.149	9.159	(1.091)	1018990	75.0000	72.8	
	24 2,2'-Oxybis(1-chloropropane)	45	9.149	9.159	(1.091)	1018990	75.0000	72.8	
	25 2-Methylphenol	108	9.263	9.304	(1.105)	786330	75.0000	73.6	
	27 Acetophenone	105	9.377	9.386	(0.827)	1060323	75.0000	71.7	
	31 Hexachloroethane	117	9.511	9.521	(1.135)	350015	75.0000	75.5	
	26 N-Nitrosopyrrolidine	100	9.418	9.469	(1.123)	426454	75.0000	81.6(QM)	M9
	29 o-Toluidine	106	9.459	9.480	(1.128)	1083091	75.0000	70.8	
	28 N-Nitrosomorpholine	56	9.459	9.500	(1.128)	509311	75.0000	71.0	
	30 N-Nitroso-di-n-propylamine	70	9.480	9.521	(1.131)	500566	75.0000	75.0	
	32 3&4-Methylphenol	108	9.635	9.656	(1.149)	840400	75.0000	74.4	
$	33 Nitrobenzene-D5	82	9.697	9.707	(0.855)	777473	75.0000	74.7	
	34 Nitrobenzene	77	9.739	9.759	(0.859)	745569	75.0000	71.6	
	35 N-Nitrosopiperidine	114	10.101	10.121	(0.891)	436359	75.0000	73.8	
	36 Isophorone	82	10.360	10.390	(0.913)	1481852	75.0000	72.9	
	37 2-Nitrophenol	139	10.494	10.504	(0.925)	454494	75.0000	74.4	
	38 2,4-Dimethylphenol	107	10.815	10.835	(0.953)	750254	75.0000	71.5	
	40 Bis(2-Chloroethoxy)methane	93	10.970	10.991	(0.967)	1080032	75.0000	77.5	
	39 O,O,O-Triethylphosphorothioat	198	10.939	10.949	(0.964)	334043	75.0000	75.0	
	41 2,4-Dichlorophenol	162	11.146	11.167	(0.983)	687238	75.0000	76.0	
	42 1,2,4-Trichlorobenzene	180	11.250	11.260	(0.992)	686659	75.0000	73.0	
*	44 Naphthalene-D8	136	11.343	11.353	(1.000)	1350175	40.0000		
	43 Benzoic acid	122	11.374	11.488	(1.003)	388714	75.0000	79.2(QM)	M9
	45 Naphthalene	128	11.395	11.415	(1.005)	1954688	75.0000	71.4	
	49 A,A-Dimethylphenethylamine	58	11.995	12.140	(1.057)	2120944	75.0000	85.7(M)	M9
	47 Hexachloropropene	213	11.643	11.653	(1.026)	384480	75.0000	71.1	
	48 2,6-Dichlorophenol	162	11.664	11.684	(1.028)	560131	75.0000	71.6	
	46 4-Chloroaniline	127	11.654	11.674	(1.027)	797191	75.0000	70.9	
	50 Hexachlorobutadiene	225	11.809	11.808	(1.041)	339375	75.0000	72.5	
	51 N-Nitroso-Di-N-Butylamine	84	12.585	12.605	(1.109)	533258	75.0000	69.1	
	53 Caprolactam	113	12.709	12.802	(1.120)	278114	75.0000	78.2(Q)	
	52 p-Phenylenediamine	108	12.595	12.626	(1.110)	603859	75.0000	71.6	
	54 Isosafrole	162	13.009	13.019	(1.147)	550189	75.0000	72.4	
	56 2-Methylnaphthalene	142	13.113	13.133	(1.156)	1471990	75.0000	66.1	
	55 4-Chloro-3-Methylphenol	107	13.061	13.092	(1.151)	678386	75.0000	75.3	
	57 1-Methylnaphthalene	142	13.341	13.361	(1.176)	1324201	75.0000	72.2	
	59 1,2,4,5-Tetrachlorobenzene	216	13.548	13.568	(0.866)	573826	75.0000	76.1	
	60 Hexachlorocyclopentadiene	237	13.568	13.578	(0.867)	348381	75.0000	74.0	
	62 2,4,6-Trichlorophenol	196	13.931	13.951	(0.890)	442635	75.0000	73.2	
$	64 2-Fluorobiphenyl	172	14.096	14.116	(0.901)	1250705	75.0000	70.5	
	63 2,4,5-Trichlorophenol	196	14.076	14.075	(0.899)	455155	75.0000	74.2	
	61 Safrole	104	13.724	13.723	(0.877)	55889	75.0000	76.6	
	65 2-Chloronaphthalene	162	14.293	14.313	(0.913)	1601998	75.0000	72.7	
	66 1,1'-Biphenyl	154	14.314	14.334	(0.915)	1325740	75.0000	75.7	
	67 1-Chloronaphthalene	162	14.345	14.355	(0.917)	1229105	75.0000	71.4(H)	
	68 Diphenylether	170	14.603	14.613	(0.933)	861589	75.0000	72.4	
	69 2-Nitroaniline	65	14.665	14.686	(0.937)	427157	75.0000	75.0	
	70 1,4-Naphthoquinone	158	14.769	14.779	(0.944)	361161	75.0000	70.4(M)	M9
	71 1,4-Dinitrobenzene	75	15.017	15.038	(0.960)	274223	75.0000	76.1	
	74 Acenaphthylene	152	15.286	15.307	(0.977)	1974941	75.0000	71.4	
	73 Dimethyl Phthalate	163	15.245	15.276	(0.974)	1420666	75.0000	72.5	
	72 1,3-Dinitrobenzene	168	15.235	15.255	(0.974)	227603	75.0000	74.2	
	75 2,6-Dinitrotoluene	165	15.318	15.338	(0.979)	327352	75.0000	75.5	
	76 1,2-Dinitrobenzene	50	15.411	15.441	(0.985)	235985	75.0000	75.9	

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Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9210.D
Report Date: 13-Jan-2015 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
*	77 Acenaphthene-D10	164	15.649	15.659	(1.000)	705532	40.0000		
	79 Acenaphthene	153	15.742	15.752	(1.006)	1140519	75.0000	74.5	
	78 3-Nitroaniline	138	15.721	15.762	(1.005)	403861	75.0000	74.3	
	80 2,4-Dinitrophenol	184	16.011	16.042	(1.023)	227739	75.0000	76.7	
	82 Dibenzofuran	168	16.187	16.197	(1.034)	1675134	75.0000	70.6	
	81 Pentachlorobenzene	250	16.104	16.124	(1.029)	546556	75.0000	71.5	
	84 1-Naphthylamine	143	16.415	16.435	(1.049)	1500901	75.0000	71.7	
	83 2,4-Dinitrotoluene	165	16.321	16.362	(1.043)	458909	75.0000	75.6	
	85 2,3,5,6-Tetrachlorophenol	232	16.487	16.507	(1.054)	364171	75.0000	75.8	
	88 2-Naphthylamine	143	16.632	16.663	(1.063)	1309548	75.0000	70.4	
	86 4-Nitrophenol	139	16.466	16.476	(1.052)	289776	75.0000	77.7(QM)	M9
	87 2,3,4,6-Tetrachlorophenol	232	16.611	16.632	(1.062)	323312	75.0000	69.7	
	90 Fluorene	166	17.036	17.046	(1.089)	1261841	75.0000	75.5	
	89 Diethylphthalate	149	17.015	17.035	(1.087)	1360869	75.0000	77.3	
	91 4-Chlorophenyl-phenylether	204	17.129	17.139	(1.095)	645052	75.0000	72.1	
	92 O,O-diethyl-o-2-pyrazinylphos	107	17.191	17.222	(1.099)	287437	75.0000	70.6	
	94 5-Nitro-O-Toluidine	152	17.212	17.242	(1.100)	447663	75.0000	74.1	
	95 4-Nitroaniline	138	17.274	17.315	(1.104)	408375	75.0000	77.1	
	96 4,6-Dinitro-2-Methylphenol	198	17.325	17.356	(0.897)	272864	75.0000	81.2	
	97 N-Nitrosodiphenylamine	169	17.460	17.491	(0.904)	1120376	75.0000	72.5	
	98 N-Nitrosodiphenylamine/DPA	169	17.460	17.491	(0.904)	1120376	75.0000	72.5	
	99 1,2-Diphenylhydrazine	77	17.512	17.532	(0.906)	1480817	75.0000	71.9	
	100 Azobenzene	77	17.512	17.532	(0.906)	1480817	75.0000	72.2	
$	101 2,4,6-Tribromophenol	330	17.657	17.667	(1.128)	223591	75.0000	74.8	
	93 Sulfotepp	97	17.191	17.222	(0.890)	318353	75.0000	69.8	
	103 Diallate	86	18.247	18.257	(0.944)	518899	75.0000	69.8	
	104 4-Bromophenyl-phenylether	248	18.329	18.339	(0.949)	370394	75.0000	72.3	
	102 Phorate	75	18.247	18.267	(0.944)	825424	75.0000	71.3	
	105 1,3,5-Trinitrobenzene	213	18.360	18.370	(0.950)	232970	75.0000	77.1	
	107 Phenacetin	108	18.474	18.515	(0.956)	769573	75.0000	74.2	
	106 Hexachlorobenzene	284	18.412	18.432	(0.953)	439525	75.0000	72.7	
	108 Dimethoate	87	18.692	18.722	(0.967)	499868	75.0000	75.5	
	109 Atrazine	200	18.950	18.971	(0.981)	285299	75.0000	69.8	
	112 4-Aminobiphenyl	169	19.002	19.022	(0.983)	983301	75.0000	73.3	
	111 Pentachlorophenol	266	18.992	19.012	(0.983)	244895	75.0000	73.5	
	110 Pentachloronitrobenzene	237	18.981	18.991	(0.982)	162020	75.0000	72.0	
*	114 Phenanthrene-D10	188	19.323	19.333	(1.000)	1053071	40.0000		
	113 Pronamide	173	19.333	19.354	(1.001)	573030	75.0000	73.4	
	115 Phenanthrene	178	19.385	19.405	(1.003)	1946661	75.0000	71.5	
	116 Anthracene	178	19.509	19.530	(1.010)	1958299	75.0000	72.3	
	118 Disulfoton	88	19.561	19.561	(1.012)	818465	75.0000	76.4	
	117 Dinoseb	211	19.561	19.561	(1.012)	277709	75.0000	69.6	
	119 Carbazole	167	20.006	20.026	(1.035)	1719397	75.0000	71.2	
	120 Methyl Parathion	109	20.451	20.461	(1.058)	459185	75.0000	71.4	
	121 Di-n-butylphthalate	149	21.124	21.134	(1.093)	2355845	75.0000	70.1	
	122 4-Nitroquinoline-1-Oxide	190	21.372	21.393	(1.106)	152471	75.0000	77.5	
	123 Ethyl Parathion	291	21.476	21.496	(1.111)	117298	75.0000	72.0	
	124 Methapyrilene	97	21.724	21.745	(1.124)	471214	75.0000	69.3	
	125 Isodrin	193	21.931	21.941	(1.135)	259582	75.0000	73.6	
	126 Fluoranthene	202	22.325	22.345	(1.155)	1794653	75.0000	69.9	
	128 Pyrene	202	22.852	22.873	(0.882)	1846667	75.0000	73.1	
	127 Benzidine	184	22.821	22.831	(0.881)	481046	75.0000	78.5	
$	129 Terphenyl-D14	244	23.432	23.442	(0.905)	1161096	75.0000	73.2	
	130 Aramite	185	23.753	23.752	(0.917)	124585	75.0000	73.8	

JCG

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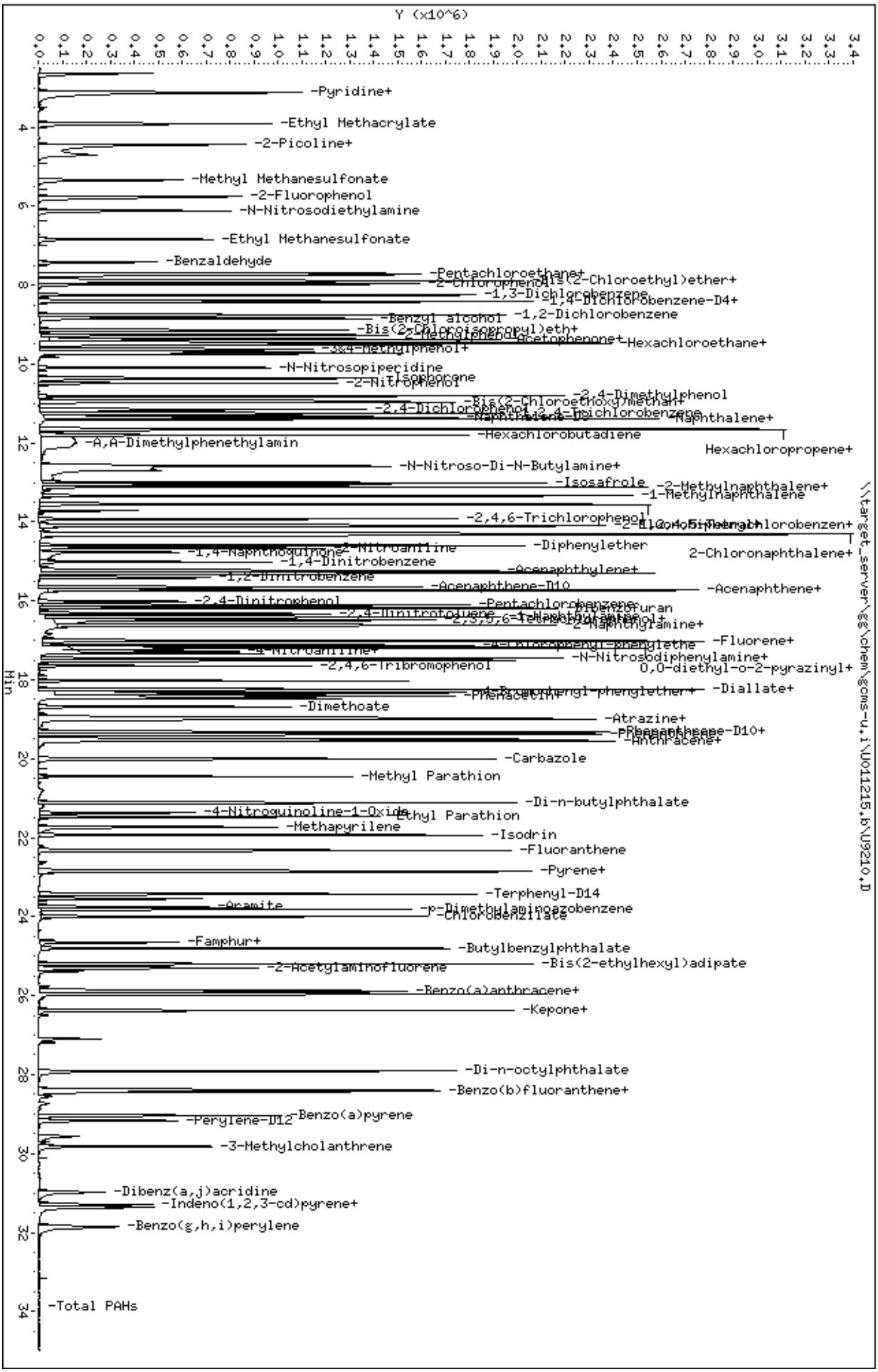
Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9210.D
Report Date: 13-Jan-2015 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131	p-Dimethylaminoazobenzene	225	23.815	23.835	(0.919)	340423	75.0000	74.7	
132	Chlorobenzilate	251	24.001	24.011	(0.926)	485270	75.0000	74.5	
134	3,3'-Dimethylbenzidine	212	24.653	24.663	(0.952)	446187	75.0000	76.9	
135	Butylbenzylphthalate	149	24.809	24.819	(0.958)	920916	75.0000	73.4	
136	Bis(2-ethylhexyl)adipate	129	25.202	25.212	(0.973)	816942	75.0000	73.6	
137	2-Acetylaminofluorene	181	25.305	25.326	(0.977)	544066	75.0000	78.8	
138	Benzo(a)anthracene	228	25.875	25.885	(0.999)	1293140	75.0000	73.6	
* 139	Chrysene-D12	240	25.906	25.916	(1.000)	725694	40.0000		
141	Chrysene	228	25.968	25.978	(1.002)	1149785	75.0000	72.2	
140	3,3'-Dichlorobenzidine	252	25.957	25.957	(1.002)	392768	75.0000	73.8	
142	bis(2-Ethylhexyl)phthalate	149	26.382	26.392	(1.018)	1230774	75.0000	71.8	
144	Di-n-octylphthalate	149	27.914	27.924	(0.957)	1933470	75.0000	78.4	
145	Benzo(b)fluoranthene	252	28.390	28.400	(0.973)	906177	75.0000	73.8	
146	7,12-Dimethylbenz(A)Anthracen	256	28.400	28.410	(0.974)	470162	75.0000	74.1	
147	Benzo(k)fluoranthene	252	28.442	28.462	(0.975)	934587	75.0000	73.0(H)	
148	Benzo(a)pyrene	252	29.042	29.052	(0.996)	820440	75.0000	75.3	
* 150	Perylene-D12	264	29.166	29.166	(1.000)	460445	40.0000		
151	3-Methylcholanthrene	268	29.828	29.828	(1.023)	376100	75.0000	73.4	
152	Dibenz(a,j)acridine	279	30.977	30.977	(1.062)	393713	75.0000	71.1	
153	Indeno(1,2,3-cd)pyrene	276	31.298	31.308	(1.073)	426291	75.0000	69.5	
154	Dibenzo(a,h)anthracene	278	31.371	31.370	(1.076)	446040	75.0000	67.4	
155	Benzo(g,h,i)perylene	276	31.857	31.857	(1.092)	476774	75.0000	67.8	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U011215,b\U9210.D
Date : 12-JAN-2015 15:25
Client ID:
Sample Info: WG156827-5
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u,i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U011215,b\U9210.D
Y (x10^6)
Min
-Pyridine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Pentachloroethane+
-2-Chlorophenol
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol
-1,2-Dichlorobenzene
-Bis(2-Chloroisopropyl)eth+
-Hexachloroethane+
-3&4-Methylphenol+
-N-Nitrosopiperidine
-2-Nitrophenol
-Isophorone
-2,4-Dimethylphenol
-Naphthalene-D8
-Hexachlorobutadiene
Hexachloropropene+
-A,A-Dimethylphenethylamin
-N-Nitroso-Di-N-Butylamine+
-Isosafrole
-2-Methylnaphthalene+
-1-Methylnaphthalene
-2,4,6-Trichlorophenol
-Diphenylether
2-Chloronaphthalene+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-1,2-Dinitrobenzene
-Acenaphthylene+
-Acenaphthene-D10
-Acenaphthene+
-2,4-Dinitrophenol
-Pentachlorobenzene
-2,4-Dinitrotoluene
-2-Naphthylamine+
-Fluorene+
-4-Nitroaniline+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
O,O-diethyl-o-2-pyrazinyl+
-Diallate+
-Phenacetin
-Dimethoate
-Atrazine+
-Phenanthrene-D10+
-Anthracene+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide
-Ethyl Parathion
-Methapyrilene
-Isodrin
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-2-Acetylaminofluorene
-Bis(2-ethylhexyl)adipate
-Benzo(a)anthracene+
-Kepone+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
-Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9211.D
Report Date: 13-Jan-2015 10:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011215.b\U9211.D
Lab Smp Id: WG156827-6
Inj Date : 12-JAN-2015 16:09 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG156827-6
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011215.b\U8270C70.m
Meth Date : 13-Jan-2015 08:35 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 16:09 Cal File: U9211.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.638	2.649	(0.314)	378963	100.000	95.4	
	3 Pyridine	79	3.125	3.125	(0.372)	1189011	100.000	94.7	
	2 N-Nitrosodimethylamine	42	3.115	3.114	(0.371)	470064	100.000	97.8	
	4 Ethyl Methacrylate	69	3.912	3.911	(0.466)	872045	100.000	97.1	
	5 2-Picoline	93	4.429	4.429	(0.528)	1259482	100.000	100	
	6 N-Nitrosomethylethylamine	88	4.708	4.708	(0.561)	574766	100.000	103	
	7 Methyl Methanesulfonate	80	5.350	5.350	(0.637)	669479	100.000	100	
$	8 2-Fluorophenol	112	5.764	5.754	(0.687)	1128578	100.000	99.7	
	9 N-Nitrosodiethylamine	102	6.126	6.137	(0.730)	566989	100.000	100	
	10 Ethyl Methanesulfonate	79	6.851	6.861	(0.816)	863450	100.000	98.0	
	11 Benzaldehyde	77	7.420	7.420	(0.884)	178352	100.000	65.9	
	13 Pentachloroethane	117	7.741	7.741	(0.922)	393400	100.000	93.1	
	12 Aniline	93	7.710	7.720	(0.919)	1525995	100.000	95.2	
	16 Bis(2-Chloroethyl)ether	93	7.907	7.917	(0.942)	857622	100.000	90.5	
$	14 Phenol-D6	99	7.865	7.865	(0.937)	1169677	100.000	95.8	
	15 Phenol	94	7.896	7.896	(0.941)	1216817	100.000	93.3	
	17 2-Chlorophenol	128	7.989	7.989	(0.952)	1019905	100.000	93.8	
	18 1,3-Dichlorobenzene	146	8.259	8.258	(0.984)	1117208	100.000	92.3	
*	19 1,4-Dichlorobenzene-D4	152	8.393	8.393	(1.000)	348136	40.0000		
	20 1,4-Dichlorobenzene	146	8.424	8.434	(1.004)	1081238	100.000	90.4	
	21 1,2-Dichlorobenzene	146	8.755	8.765	(1.043)	1067519	100.000	92.0	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9211.D
Report Date: 13-Jan-2015 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.859	8.869	(1.055)	736473	100.000	99.0	
	23 Bis(2-Chloroisopropyl)ether	45	9.149	9.159	(1.090)	1267118	100.000	91.9	
	24 2,2'-Oxybis(1-chloropropane)	45	9.149	9.159	(1.090)	1267118	100.000	91.9	
	25 2-Methylphenol	108	9.283	9.304	(1.106)	1035108	100.000	98.4	
	27 Acetophenone	105	9.387	9.386	(0.827)	1389902	100.000	94.0	
	31 Hexachloroethane	117	9.521	9.521	(1.134)	392635	100.000	86.0	
	26 N-Nitrosopyrrolidine	100	9.449	9.469	(1.126)	441157	100.000	85.7(QH)	
	29 o-Toluidine	106	9.470	9.480	(1.128)	1342750	100.000	89.1	
	28 N-Nitrosomorpholine	56	9.490	9.500	(1.131)	624643	100.000	88.4	
	30 N-Nitroso-di-n-propylamine	70	9.511	9.521	(1.133)	568743	100.000	86.5	
	32 3&4-Methylphenol	108	9.645	9.656	(1.149)	1085035	100.000	97.5	
$	33 Nitrobenzene-D5	82	9.708	9.707	(0.855)	1002856	100.000	96.3	
	34 Nitrobenzene	77	9.749	9.759	(0.859)	957893	100.000	92.0	
	35 N-Nitrosopiperidine	114	10.111	10.121	(0.891)	562845	100.000	95.2	
	36 Isophorone	82	10.380	10.390	(0.914)	1950638	100.000	95.9	
	37 2-Nitrophenol	139	10.494	10.504	(0.924)	605630	100.000	99.1	
	38 2,4-Dimethylphenol	107	10.825	10.835	(0.954)	965698	100.000	92.0	
	40 Bis(2-Chloroethoxy)methane	93	10.981	10.991	(0.967)	1337352	100.000	96.0	
	39 O,O,O-Triethylphosphorothioat	198	10.950	10.949	(0.964)	422774	100.000	94.8	
	41 2,4-Dichlorophenol	162	11.157	11.167	(0.983)	875712	100.000	96.8	
	42 1,2,4-Trichlorobenzene	180	11.260	11.260	(0.992)	859485	100.000	91.4	
*	44 Naphthalene-D8	136	11.353	11.353	(1.000)	1350804	40.0000		
	43 Benzoic acid	122	11.446	11.488	(1.008)	531116	100.000	100(M)	M9
	45 Naphthalene	128	11.405	11.415	(1.005)	2422207	100.000	88.5	
	49 A,A-Dimethylphenethylamine	58	12.098	12.140	(1.066)	2321655	100.000	93.7(M)	M9
	47 Hexachloropropene	213	11.643	11.653	(1.026)	501023	100.000	92.7	
	48 2,6-Dichlorophenol	162	11.674	11.684	(1.028)	681307	100.000	87.1	
	46 4-Chloroaniline	127	11.664	11.674	(1.027)	879174	100.000	78.2	
	50 Hexachlorobutadiene	225	11.809	11.808	(1.040)	423879	100.000	90.6	
	51 N-Nitroso-Di-N-Butylamine	84	12.595	12.605	(1.109)	672144	100.000	87.0	
	53 Caprolactam	113	12.761	12.802	(1.124)	350040	100.000	98.3	
	52 p-Phenylenediamine	108	12.616	12.626	(1.111)	680446	100.000	80.7	
	54 Isosafrole	162	13.020	13.019	(1.147)	702968	100.000	92.4	
	56 2-Methylnaphthalene	142	13.123	13.133	(1.156)	1793426	100.000	80.5	
	55 4-Chloro-3-Methylphenol	107	13.071	13.092	(1.151)	865197	100.000	96.0	
	57 1-Methylnaphthalene	142	13.351	13.361	(1.176)	1637501	100.000	89.3	
	59 1,2,4,5-Tetrachlorobenzene	216	13.558	13.568	(0.866)	691599	100.000	105	
	60 Hexachlorocyclopentadiene	237	13.568	13.578	(0.866)	429319	100.000	94.2	
	62 2,4,6-Trichlorophenol	196	13.941	13.951	(0.890)	541228	100.000	92.4	
$	64 2-Fluorobiphenyl	172	14.106	14.116	(0.901)	1538124	100.000	89.5	
	63 2,4,5-Trichlorophenol	196	14.075	14.075	(0.899)	573212	100.000	96.5	
	61 Safrole	104	13.723	13.723	(0.876)	73224	100.000	104	
	65 2-Chloronaphthalene	162	14.303	14.313	(0.913)	2063095	100.000	103	
	66 1,1'-Biphenyl	154	14.324	14.334	(0.915)	1586046	100.000	107	
	67 1-Chloronaphthalene	162	14.355	14.355	(0.917)	1411544	100.000	84.7(H)	
	68 Diphenylether	170	14.603	14.613	(0.933)	1067445	100.000	92.6	
	69 2-Nitroaniline	65	14.676	14.686	(0.937)	546979	100.000	99.3	
	70 1,4-Naphthoquinone	158	14.769	14.779	(0.943)	409053	100.000	82.4(M)	M9
	71 1,4-Dinitrobenzene	75	15.028	15.038	(0.960)	348945	100.000	100	
	74 Acenaphthylene	152	15.297	15.307	(0.977)	2406215	100.000	89.8	
	73 Dimethyl Phthalate	163	15.255	15.276	(0.974)	1767545	100.000	93.2	
	72 1,3-Dinitrobenzene	168	15.235	15.255	(0.973)	286860	100.000	96.5	
	75 2,6-Dinitrotoluene	165	15.328	15.338	(0.979)	396854	100.000	94.6	
	76 1,2-Dinitrobenzene	50	15.431	15.441	(0.985)	289638	100.000	96.2	

JCG

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Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9211.D
Report Date: 13-Jan-2015 10:04

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)	REVIEW CODE
*	77 Acenaphthene-D10	164	15.659	15.659	(1.000)	683031	40.0000		
	79 Acenaphthene	153	15.752	15.752	(1.006)	1382507	100.000	101	
	78 3-Nitroaniline	138	15.742	15.762	(1.005)	465541	100.000	88.5	
	80 2,4-Dinitrophenol	184	16.021	16.042	(1.023)	295143	100.000	102	
	82 Dibenzofuran	168	16.187	16.197	(1.034)	2073237	100.000	90.3	
	81 Pentachlorobenzene	250	16.114	16.124	(1.029)	683892	100.000	92.4	
	84 1-Naphthylamine	143	16.425	16.435	(1.049)	1827857	100.000	90.2	
	83 2,4-Dinitrotoluene	165	16.342	16.362	(1.044)	559484	100.000	95.2	
	85 2,3,5,6-Tetrachlorophenol	232	16.497	16.507	(1.054)	425488	100.000	91.4	
	88 2-Naphthylamine	143	16.642	16.663	(1.063)	1591504	100.000	88.3	
	86 4-Nitrophenol	139	16.466	16.476	(1.052)	353294	100.000	97.8(M)	M9
	87 2,3,4,6-Tetrachlorophenol	232	16.621	16.632	(1.061)	407544	100.000	90.8	
	90 Fluorene	166	17.035	17.046	(1.088)	1512992	100.000	104	
	89 Diethylphthalate	149	17.015	17.035	(1.087)	1572233	100.000	103	
	91 4-Chlorophenyl-phenylether	204	17.129	17.139	(1.094)	797650	100.000	92.2	
	92 O,O-diethyl-o-2-pyrazinylphos	107	17.201	17.222	(1.098)	349802	100.000	88.8	
	94 5-Nitro-O-Toluidine	152	17.222	17.242	(1.100)	511677	100.000	87.4	
	95 4-Nitroaniline	138	17.294	17.315	(1.104)	474936	100.000	92.6	
	96 4,6-Dinitro-2-Methylphenol	198	17.336	17.356	(0.897)	328507	100.000	106	
	97 N-Nitrosodiphenylamine	169	17.470	17.491	(0.904)	1365288	100.000	95.9	
	98 N-Nitrosodiphenylamine/DPA	169	17.470	17.491	(0.904)	1365288	100.000	95.9	
	99 1,2-Diphenylhydrazine	77	17.522	17.532	(0.907)	1953130	100.000	103	
	100 Azobenzene	77	17.522	17.532	(0.907)	1953130	100.000	103	
$	101 2,4,6-Tribromophenol	330	17.656	17.667	(1.128)	270921	100.000	93.7	
	93 Sulfotepp	97	17.201	17.222	(0.890)	394760	100.000	94.0	
	103 Diallate	86	18.257	18.257	(0.945)	612806	100.000	89.6	
	104 4-Bromophenyl-phenylether	248	18.329	18.339	(0.949)	456610	100.000	96.8	
	102 Phorate	75	18.257	18.267	(0.945)	946415	100.000	88.8	
	105 1,3,5-Trinitrobenzene	213	18.381	18.370	(0.951)	265152	100.000	95.3(Q)	
	107 Phenacetin	108	18.495	18.515	(0.957)	903697	100.000	94.7	
	106 Hexachlorobenzene	284	18.422	18.432	(0.953)	533214	100.000	95.8	
	108 Dimethoate	87	18.702	18.722	(0.968)	534256	100.000	95.7	
	109 Atrazine	200	18.961	18.971	(0.981)	283642	100.000	75.3	
	112 4-Aminobiphenyl	169	19.012	19.022	(0.984)	1087785	100.000	96.6	
	111 Pentachlorophenol	266	19.002	19.012	(0.983)	296279	100.000	96.5	
	110 Pentachloronitrobenzene	237	18.981	18.991	(0.982)	193396	100.000	93.3	
*	114 Phenanthrene-D10	188	19.323	19.333	(1.000)	969803	40.0000		
	113 Pronamide	173	19.344	19.354	(1.001)	686167	100.000	95.4	
	115 Phenanthrene	178	19.395	19.405	(1.004)	2287351	100.000	91.3	
	116 Anthracene	178	19.520	19.530	(1.010)	2281077	100.000	91.4	
	118 Disulfoton	88	19.561	19.561	(1.012)	947708	100.000	96.0	
	117 Dinoseb	211	19.561	19.561	(1.012)	340824	100.000	92.8	
	119 Carbazole	167	20.016	20.026	(1.036)	1968088	100.000	88.6	
	120 Methyl Parathion	109	20.451	20.461	(1.058)	501001	100.000	84.6	
	121 Di-n-butylphthalate	149	21.124	21.134	(1.093)	2714820	100.000	87.7	
	122 4-Nitroquinoline-1-Oxide	190	21.383	21.393	(1.107)	180032	100.000	99.4	
	123 Ethyl Parathion	291	21.486	21.496	(1.112)	135308	100.000	90.2	
	124 Methapyrilene	97	21.734	21.745	(1.125)	467955	100.000	74.7	
	125 Isodrin	193	21.931	21.941	(1.135)	293862	100.000	90.4	
	126 Fluoranthene	202	22.335	22.345	(1.156)	1990016	100.000	84.2	
	128 Pyrene	202	22.863	22.873	(0.883)	2015349	100.000	99.5	
	127 Benzidine	184	22.821	22.831	(0.881)	462466	100.000	94.2	
$	129 Terphenyl-D14	244	23.432	23.442	(0.905)	1273304	100.000	100	
	130 Aramite	185	23.753	23.752	(0.917)	131933	100.000	97.4	

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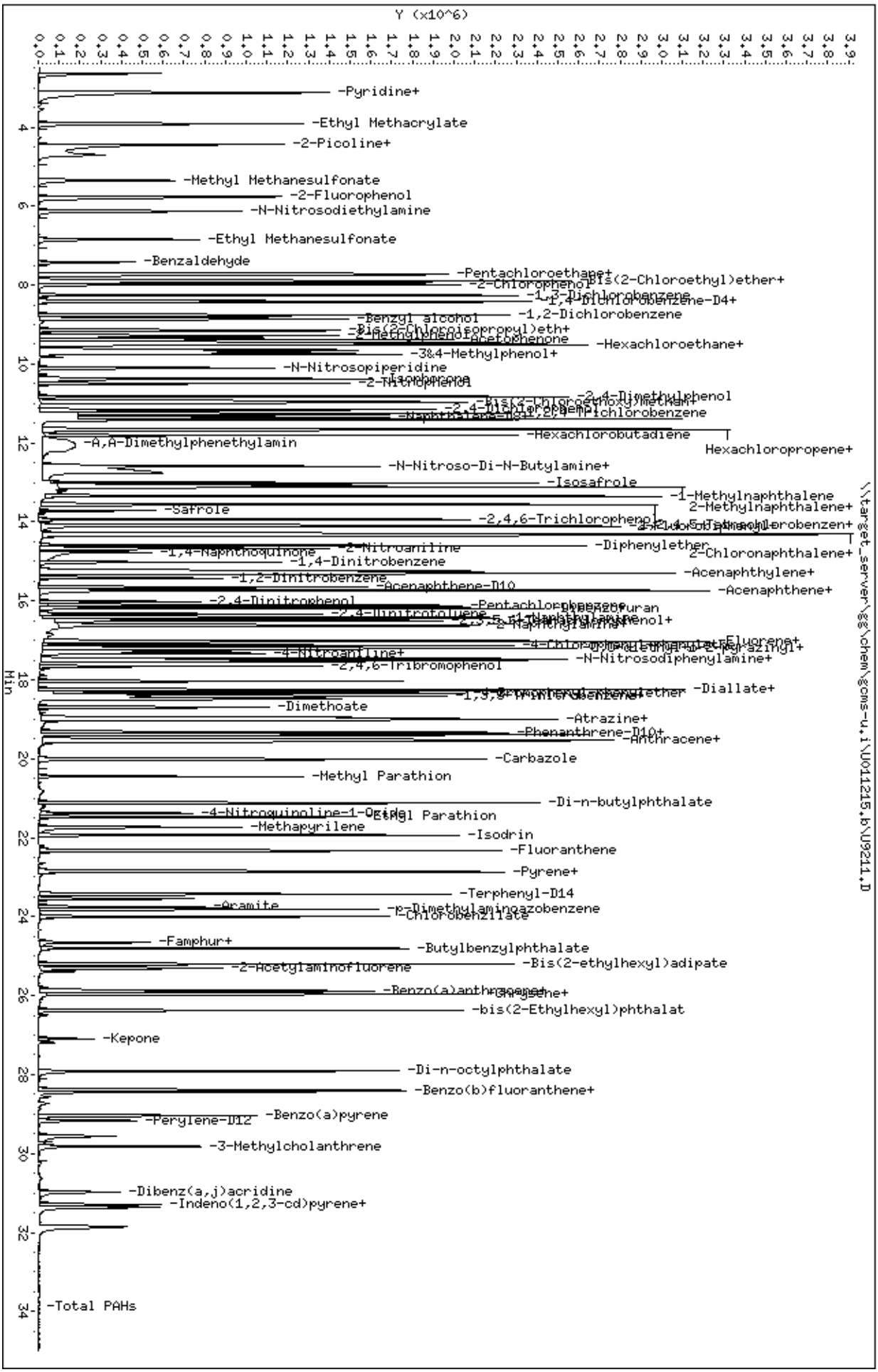
Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9211.D
Report Date: 13-Jan-2015 10:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131 p-Dimethylaminoazobenzene	225	23.815	23.835	(0.920)	371861	100.000	102	
132 Chlorobenzilate	251	24.001	24.011	(0.927)	516367	100.000	98.9	
134 3,3'-Dimethylbenzidine	212	24.653	24.663	(0.952)	450346	100.000	96.8	
135 Butylbenzylphthalate	149	24.808	24.819	(0.958)	963690	100.000	95.8	
136 Bis(2-ethylhexyl)adipate	129	25.202	25.212	(0.973)	894580	100.000	100	
137 2-Acetylaminofluorene	181	25.305	25.326	(0.977)	570549	100.000	103	
138 Benzo(a)anthracene	228	25.875	25.885	(0.999)	1366639	100.000	97.1	
* 139 Chrysene-D12	240	25.895	25.916	(1.000)	581765	40.0000		
141 Chrysene	228	25.968	25.978	(1.003)	1133844	100.000	88.8	
140 3,3'-Dichlorobenzidine	252	25.957	25.957	(1.002)	414591	100.000	97.2	
142 bis(2-Ethylhexyl)phthalate	149	26.382	26.392	(1.019)	1312349	100.000	95.4	
144 Di-n-octylphthalate	149	27.913	27.924	(0.957)	1997828	100.000	102	
145 Benzo(b)fluoranthene	252	28.390	28.400	(0.973)	961825	100.000	99.2	
146 7,12-Dimethylbenz(A)Anthracen	256	28.400	28.410	(0.974)	483630	100.000	96.4	
147 Benzo(k)fluoranthene	252	28.441	28.462	(0.975)	967086	100.000	95.5(MH)	M6
148 Benzo(a)pyrene	252	29.042	29.052	(0.996)	882243	100.000	102	
* 150 Perylene-D12	264	29.166	29.166	(1.000)	364035	40.0000		
151 3-Methylcholanthrene	268	29.828	29.828	(1.023)	403653	100.000	99.7	
152 Dibenz(a,j)acridine	279	30.977	30.977	(1.062)	459342	100.000	105	
153 Indeno(1,2,3-cd)pyrene	276	31.298	31.308	(1.073)	513380	100.000	105	
154 Dibenzo(a,h)anthracene	278	31.370	31.370	(1.076)	536401	100.000	102	
155 Benzo(g,h,i)perylene	276	31.847	31.857	(1.092)	544166	100.000	97.8	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

11:04 am, Jan 20, 2015


Data File: \\target_server\gg\chem\gcms-u,i\U011215,b\U9211.D
Date : 12-JAN-2015 16:09
Client ID:
Sample Info: WG156827-6
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u,i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U011215,b\U9211.D
Y (x10^6)
Min
-Pyridine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Pentachloroethane+
-2-Chlorophenol
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol
-1,2-Dichlorobenzene
-Hexachloroethane+
-3&4-Methylphenol+
-N-Nitrosopiperidine
-2-Nitrophenol
-Hexachlorobutadiene
-A,A-Dimethylphenethylamin
Hexachloropropene+
-N-Nitroso-Di-N-Butylamine+
-Isosafrole
-1-Methylnaphthalene
2-Methylnaphthalene+
-Safrole
-2,4,6-Trichlorophenol
-Diphenylether
2-Chloronaphthalene+
-1,4-Naphthoquinone
-2-Nitroaniline
-1,4-Dinitrobenzene
-1,2-Dinitrobenzene
-Acenaphthylene+
-Acenaphthene-D10
-Acenaphthene+
-2,4-Dinitrophenol
-2,4-Dinitrotoluene
-4-Nitroaniline+
-2,4,6-Tribromophenol
-N-Nitrosodiphenylamine+
-Diallate+
-Dimethoate
-Atrazine+
-Phenanthrene-D10+
-Anthracene+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide
Ethyl Parathion
-Methapyrilene
-Isodrin
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-2-Acetylaminofluorene
-Bis(2-ethylhexyl)adipate
-Benzo(a)anthracene+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Perylene-D12
-Benzo(a)pyrene
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene+
-Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9212.D
Report Date: 13-Jan-2015 10:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011215.b\U9212.D
Lab Smp Id: WG156827-7
Inj Date : 12-JAN-2015 16:53 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG156827-7
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011215.b\U8270C70.m
Meth Date : 13-Jan-2015 08:35 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 16:53 Cal File: U9212.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	2.649	2.649	(0.316)	444727	125.000	119	
	3 Pyridine	79	3.125	3.125	(0.372)	1415665	125.000	119	
	2 N-Nitrosodimethylamine	42	3.114	3.114	(0.371)	536605	125.000	118	
	4 Ethyl Methacrylate	69	3.911	3.911	(0.466)	999278	125.000	118	
	5 2-Picoline	93	4.429	4.429	(0.528)	1456502	125.000	123	
	6 N-Nitrosomethylethylamine	88	4.708	4.708	(0.561)	668535	125.000	127(A)	
	7 Methyl Methanesulfonate	80	5.350	5.350	(0.637)	792316	125.000	126(A)	
$	8 2-Fluorophenol	112	5.754	5.754	(0.686)	1290431	125.000	121	
	9 N-Nitrosodiethylamine	102	6.137	6.137	(0.731)	651600	125.000	122	
	10 Ethyl Methanesulfonate	79	6.861	6.861	(0.817)	1037533	125.000	125	
	11 Benzaldehyde	77	7.420	7.420	(0.884)	235251	125.000	92.1	
	13 Pentachloroethane	117	7.741	7.741	(0.922)	445218	125.000	112	
	12 Aniline	93	7.720	7.720	(0.920)	1728654	125.000	114	
	16 Bis(2-Chloroethyl)ether	93	7.917	7.917	(0.943)	975071	125.000	109	
$	14 Phenol-D6	99	7.865	7.865	(0.937)	1374555	125.000	119	
	15 Phenol	94	7.896	7.896	(0.941)	1398542	125.000	114	
	17 2-Chlorophenol	128	7.989	7.989	(0.952)	1146564	125.000	112	
	18 1,3-Dichlorobenzene	146	8.258	8.258	(0.984)	1248971	125.000	109	
*	19 1,4-Dichlorobenzene-D4	152	8.393	8.393	(1.000)	328580	40.0000		
	20 1,4-Dichlorobenzene	146	8.434	8.434	(1.005)	1194555	125.000	106	
	21 1,2-Dichlorobenzene	146	8.765	8.765	(1.044)	1197092	125.000	109	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9212.D
Report Date: 13-Jan-2015 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.869	8.869	(1.057)	882225	125.000	126(A)	
	23 Bis(2-Chloroisopropyl)ether	45	9.159	9.159	(1.091)	1436646	125.000	110	
	24 2,2'-Oxybis(1-chloropropane)	45	9.159	9.159	(1.091)	1436646	125.000	110	
	25 2-Methylphenol	108	9.304	9.304	(1.109)	1210548	125.000	122	
	27 Acetophenone	105	9.386	9.386	(0.827)	1626297	125.000	114	
	31 Hexachloroethane	117	9.521	9.521	(1.134)	417186	125.000	96.8	
	26 N-Nitrosopyrrolidine	100	9.469	9.469	(1.128)	501627	125.000	103(H)	
	29 o-Toluidine	106	9.480	9.480	(1.129)	1561403	125.000	110	
	28 N-Nitrosomorpholine	56	9.500	9.500	(1.132)	698237	125.000	105	
	30 N-Nitroso-di-n-propylamine	70	9.521	9.521	(1.134)	655200	125.000	106	
	32 3&4-Methylphenol	108	9.656	9.656	(1.150)	1244758	125.000	118	
$	33 Nitrobenzene-D5	82	9.707	9.707	(0.855)	1164782	125.000	116	
	34 Nitrobenzene	77	9.759	9.759	(0.860)	1106209	125.000	110	
	35 N-Nitrosopiperidine	114	10.121	10.121	(0.892)	691336	125.000	121	
	36 Isophorone	82	10.390	10.390	(0.915)	2327731	125.000	119	
	37 2-Nitrophenol	139	10.504	10.504	(0.925)	693958	125.000	118	
	38 2,4-Dimethylphenol	107	10.835	10.835	(0.954)	1114039	125.000	110	
	40 Bis(2-Chloroethoxy)methane	93	10.991	10.991	(0.968)	1550221	125.000	115	
	39 O,O,O-Triethylphosphorothioat	198	10.949	10.949	(0.964)	487851	125.000	114	
	41 2,4-Dichlorophenol	162	11.167	11.167	(0.984)	1001736	125.000	115	
	42 1,2,4-Trichlorobenzene	180	11.260	11.260	(0.992)	985193	125.000	109	
*	44 Naphthalene-D8	136	11.353	11.353	(1.000)	1302096	40.0000		
	43 Benzoic acid	122	11.488	11.488	(1.012)	698957	125.000	124(M)	M9
	45 Naphthalene	128	11.415	11.415	(1.005)	2735234	125.000	104	
	49 A,A-Dimethylphenethylamine	58	12.140	12.140	(1.069)	2568277	125.000	108(M)	M9
	47 Hexachloropropene	213	11.653	11.653	(1.026)	562575	125.000	108	
	48 2,6-Dichlorophenol	162	11.684	11.684	(1.029)	787054	125.000	104	
	46 4-Chloroaniline	127	11.674	11.674	(1.028)	1128276	125.000	104	
	50 Hexachlorobutadiene	225	11.808	11.808	(1.040)	474322	125.000	105	
	51 N-Nitroso-Di-N-Butylamine	84	12.605	12.605	(1.110)	808001	125.000	108	
	53 Caprolactam	113	12.802	12.802	(1.128)	440300	125.000	128(A)	
	52 p-Phenylenediamine	108	12.626	12.626	(1.112)	873006	125.000	107	
	54 Isosafrole	162	13.019	13.019	(1.147)	824923	125.000	112	
	56 2-Methylnaphthalene	142	13.133	13.133	(1.157)	2833208	125.000	132(A)	
	55 4-Chloro-3-Methylphenol	107	13.092	13.092	(1.153)	952538	125.000	110(Q)	
	57 1-Methylnaphthalene	142	13.361	13.361	(1.177)	1869024	125.000	106	
	59 1,2,4,5-Tetrachlorobenzene	216	13.568	13.568	(0.866)	777382	125.000	121	
	60 Hexachlorocyclopentadiene	237	13.578	13.578	(0.867)	494278	125.000	106	
	62 2,4,6-Trichlorophenol	196	13.951	13.951	(0.891)	647185	125.000	108	
$	64 2-Fluorobiphenyl	172	14.116	14.116	(0.902)	1768239	125.000	100	
	63 2,4,5-Trichlorophenol	196	14.075	14.075	(0.899)	689346	125.000	113	
	61 Safrole	104	13.723	13.723	(0.876)	88814	125.000	122	
	65 2-Chloronaphthalene	162	14.313	14.313	(0.914)	2451717	125.000	124	
	66 1,1'-Biphenyl	154	14.334	14.334	(0.915)	1724631	125.000	118	
	67 1-Chloronaphthalene	162	14.355	14.355	(0.917)	1474960	125.000	86.3(H)	
	68 Diphenylether	170	14.613	14.613	(0.933)	1243613	125.000	105	
	69 2-Nitroaniline	65	14.686	14.686	(0.938)	662207	125.000	117	
	70 1,4-Naphthoquinone	158	14.779	14.779	(0.944)	472590	125.000	92.8(M)	M9
	71 1,4-Dinitrobenzene	75	15.038	15.038	(0.960)	438481	125.000	122	
	74 Acenaphthylene	152	15.307	15.307	(0.978)	2760972	125.000	100	
	73 Dimethyl Phthalate	163	15.276	15.276	(0.976)	2083637	125.000	107(M)	M9
	72 1,3-Dinitrobenzene	168	15.255	15.255	(0.974)	342099	125.000	112	
	75 2,6-Dinitrotoluene	165	15.338	15.338	(0.980)	477494	125.000	111	
	76 1,2-Dinitrobenzene	50	15.441	15.441	(0.986)	345192	125.000	112	

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Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9212.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
*	77 Acenaphthene-D10	164	15.659	15.659	(1.000)	700923	40.0000		
	79 Acenaphthene	153	15.752	15.752	(1.006)	1645807	125.000	124	
	78 3-Nitroaniline	138	15.762	15.762	(1.007)	562422	125.000	104	
	80 2,4-Dinitrophenol	184	16.042	16.042	(1.024)	371833	125.000	124	
	82 Dibenzofuran	168	16.197	16.197	(1.034)	2454477	125.000	104	
	81 Pentachlorobenzene	250	16.124	16.124	(1.030)	819544	125.000	108	
	84 1-Naphthylamine	143	16.435	16.435	(1.050)	2218957	125.000	107	
	83 2,4-Dinitrotoluene	165	16.362	16.362	(1.045)	695995	125.000	115	
	85 2,3,5,6-Tetrachlorophenol	232	16.507	16.507	(1.054)	532683	125.000	112	
	88 2-Naphthylamine	143	16.663	16.663	(1.064)	1899771	125.000	103	
	86 4-Nitrophenol	139	16.476	16.476	(1.052)	429798	125.000	116(M)	M9
	87 2,3,4,6-Tetrachlorophenol	232	16.632	16.632	(1.062)	485972	125.000	106	
	90 Fluorene	166	17.046	17.046	(1.089)	1726003	125.000	122	
	89 Diethylphthalate	149	17.035	17.035	(1.088)	1789501	125.000	122	
	91 4-Chlorophenyl-phenylether	204	17.139	17.139	(1.095)	939556	125.000	106	
	92 O,O-diethyl-o-2-pyrazinylphos	107	17.222	17.222	(1.100)	442506	125.000	109	
	94 5-Nitro-O-Toluidine	152	17.242	17.242	(1.101)	653741	125.000	109	
	95 4-Nitroaniline	138	17.315	17.315	(1.106)	610633	125.000	116	
	96 4,6-Dinitro-2-Methylphenol	198	17.356	17.356	(0.898)	401764	125.000	130(A)	
	97 N-Nitrosodiphenylamine	169	17.491	17.491	(0.905)	1641103	125.000	116	
	98 N-Nitrosodiphenylamine/DPA	169	17.491	17.491	(0.905)	1641103	125.000	116	
	99 1,2-Diphenylhydrazine	77	17.532	17.532	(0.907)	2328827	125.000	124	
	100 Azobenzene	77	17.532	17.532	(0.907)	2328827	125.000	124	
$	101 2,4,6-Tribromophenol	330	17.667	17.667	(1.128)	336196	125.000	113	
	93 Sulfotepp	97	17.222	17.222	(0.891)	502657	125.000	120	
	103 Diallate	86	18.257	18.257	(0.944)	740203	125.000	109	
	104 4-Bromophenyl-phenylether	248	18.339	18.339	(0.949)	570195	125.000	122	
	102 Phorate	75	18.267	18.267	(0.945)	1125389	125.000	106	
	105 1,3,5-Trinitrobenzene	213	18.370	18.370	(0.950)	333314	125.000	120(QM)	M9
	107 Phenacetin	108	18.515	18.515	(0.958)	1120805	125.000	118	
	106 Hexachlorobenzene	284	18.432	18.432	(0.953)	633818	125.000	115	
	108 Dimethoate	87	18.722	18.722	(0.968)	628550	125.000	126(A)	
	109 Atrazine	200	18.971	18.971	(0.981)	298214	125.000	79.7	
	112 4-Aminobiphenyl	169	19.022	19.022	(0.984)	1288549	125.000	127(A)	
	111 Pentachlorophenol	266	19.012	19.012	(0.983)	358177	125.000	117	
	110 Pentachloronitrobenzene	237	18.991	18.991	(0.982)	239135	125.000	116	
*	114 Phenanthrene-D10	188	19.333	19.333	(1.000)	963940	40.0000		
	113 Pronamide	173	19.354	19.354	(1.001)	795301	125.000	111	
	115 Phenanthrene	178	19.405	19.405	(1.004)	2752617	125.000	110	
	116 Anthracene	178	19.530	19.530	(1.010)	2673783	125.000	108	
	118 Disulfoton	88	19.561	19.561	(1.012)	1143855	125.000	116	
	119 Carbazole	167	20.026	20.026	(1.036)	2438278	125.000	110	
	120 Methyl Parathion	109	20.461	20.461	(1.058)	600433	125.000	102	
	121 Di-n-butylphthalate	149	21.134	21.134	(1.093)	3297183	125.000	107	
	122 4-Nitroquinoline-1-Oxide	190	21.393	21.393	(1.107)	222660	125.000	124	
	123 Ethyl Parathion	291	21.496	21.496	(1.112)	171517	125.000	115	
	124 Methapyrilene	97	21.745	21.745	(1.125)	602367	125.000	96.8	
	125 Isodrin	193	21.941	21.941	(1.135)	352791	125.000	109	
	126 Fluoranthene	202	22.345	22.345	(1.156)	2448822	125.000	104	
	128 Pyrene	202	22.873	22.873	(0.883)	2488396	125.000	115	
	127 Benzidine	184	22.831	22.831	(0.881)	648943	125.000	124	
$	129 Terphenyl-D14	244	23.442	23.442	(0.905)	1589423	125.000	117	
	130 Aramite	185	23.752	23.752	(0.917)	167760	125.000	116	
	131 p-Dimethylaminoazobenzene	225	23.835	23.835	(0.920)	476719	125.000	122	

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Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9212.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
132	Chlorobenzilate	251	24.011	24.011	(0.926)	668402	125.000	120	
134	3,3'-Dimethylbenzidine	212	24.663	24.663	(0.952)	561053	125.000	113	
135	Butylbenzylphthalate	149	24.819	24.819	(0.958)	1244175	125.000	116	
136	Bis(2-ethylhexyl)adipate	129	25.212	25.212	(0.973)	1125514	125.000	119	
137	2-Acetylaminofluorene	181	25.326	25.326	(0.977)	717823	125.000	122	
138	Benzo(a)anthracene	228	25.885	25.885	(0.999)	1741994	125.000	116	
* 139	Chrysene-D12	240	25.916	25.916	(1.000)	619517	40.0000		
141	Chrysene	228	25.978	25.978	(1.002)	1414989	125.000	104	
140	3,3'-Dichlorobenzidine	252	25.957	25.957	(1.002)	527785	125.000	116	
142	bis(2-Ethylhexyl)phthalate	149	26.392	26.392	(1.018)	1697069	125.000	116	
144	Di-n-octylphthalate	149	27.924	27.924	(0.957)	2506518	125.000	127(A)	
145	Benzo(b)fluoranthene	252	28.400	28.400	(0.974)	1156100	125.000	118	
146	7,12-Dimethylbenz(A)Anthracen	256	28.410	28.410	(0.974)	598907	125.000	118	
147	Benzo(k)fluoranthene	252	28.462	28.462	(0.976)	1172106	125.000	115(MH)	M6
148	Benzo(a)pyrene	252	29.052	29.052	(0.996)	1007151	125.000	116	
* 150	Perylene-D12	264	29.166	29.166	(1.000)	367444	40.0000		
151	3-Methylcholanthrene	268	29.828	29.828	(1.023)	476967	125.000	117	
152	Dibenz(a,j)acridine	279	30.977	30.977	(1.062)	559856	125.000	127(A)	
153	Indeno(1,2,3-cd)pyrene	276	31.308	31.308	(1.073)	610433	125.000	123	
154	Dibenzo(a,h)anthracene	278	31.370	31.370	(1.076)	660402	125.000	125	
155	Benzo(g,h,i)perylene	276	31.857	31.857	(1.092)	654065	125.000	116	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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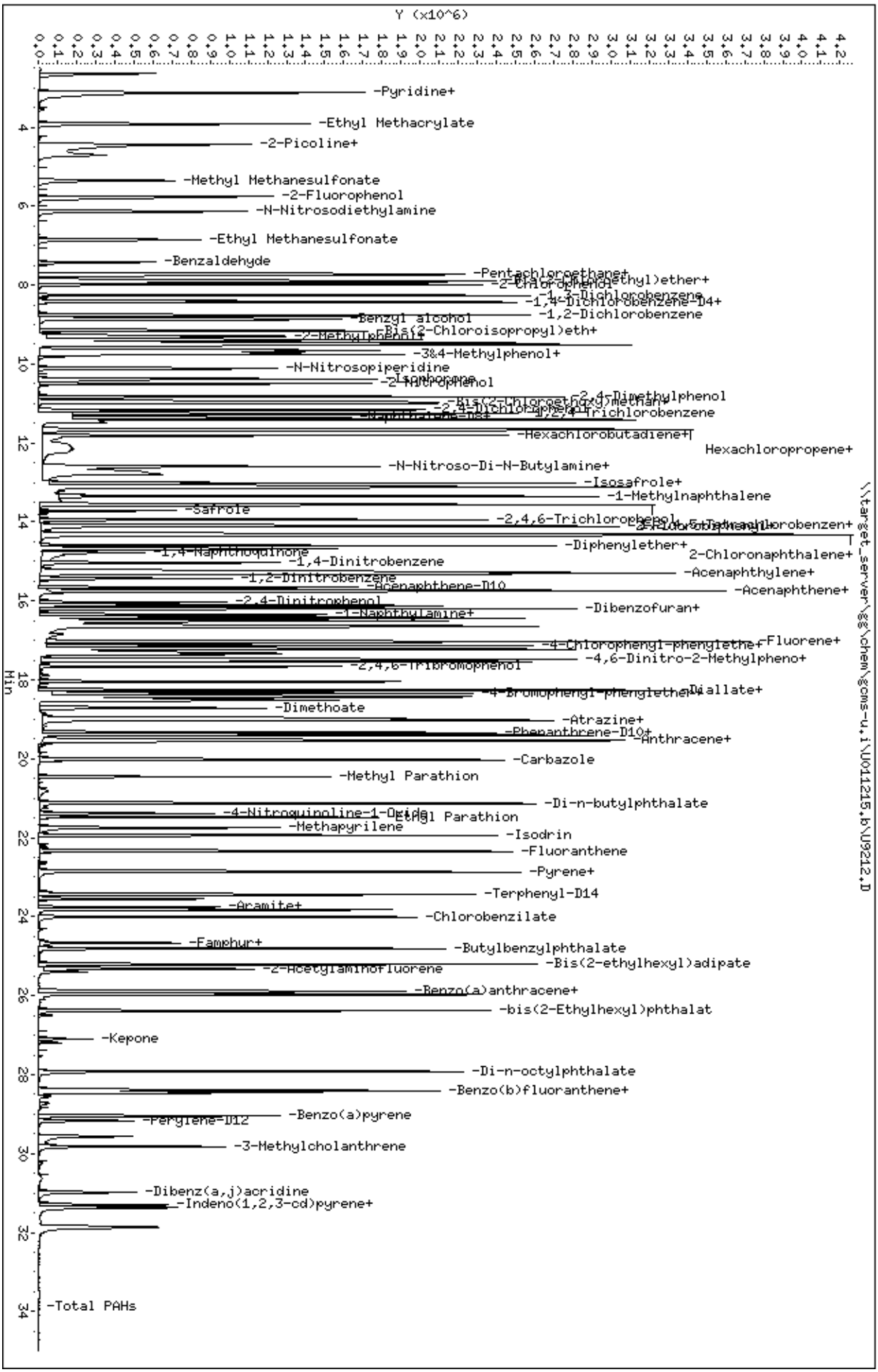

Data File: \\target_server\gg\chem\gcms-u,i\U011215,b\U9212.D
Date : 12-JAN-2015 16:53
Client ID:
Sample Info: WG156827-7
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u,i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U011215,b\U9212.D
Y (x10^6)
Min
-Pyridine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Pentachloroethane+
-2-Chlorophenol
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol
-1,2-Dichlorobenzene
-2-Methylphenol
-3&4-Methylphenol+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-Hexachlorobutadiene+
Hexachloropropene+
-N-Nitroso-Di-N-Butylamine+
-Isosafrole+
-1-Methylnaphthalene
-Safrole
-2,4,6-Trichlorophenol
-Diphenylether+
2-Chloronaphthalene+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-1,2-Dinitrobenzene
-Acenaphthylene+
-Acenaphthene-D10
-Acenaphthene+
-2,4-Dinitrophenol
-Dibenzofuran+
-1-Naphthylamine+
-4-Chlorophenyl-phenylethe+
Fluorene+
-4,6-Dinitro-2-Methylpheno+
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether+
Diallate+
-Dimethoate
-Atrazine+
-Phenanthrene-D10+
-Anthracene+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide
Ethyl Parathion
-Methapyrilene
-Isodrin
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Aramite+
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-Benzo(a)anthracene+
-bis(2-Ethylhexyl)phthalat
-Kepone
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene+
-Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9213.D
Report Date: 13-Jan-2015 13:01

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011215.b\U9213.D
Lab Smp Id: WG156827-8
Inj Date : 12-JAN-2015 17:38 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG156827-8,SI0027
Misc Info : WG156827,WG156827,WG156827-4,SI0027-6
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011215.b\U8270C70.m
Meth Date : 13-Jan-2015 08:35 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 16:53 Cal File: U9212.D
Als bottle: 8 QC Sample: INDCHECK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1	1,4-Dioxane	58	2.648	2.649	(0.316)	174296	52.8074	52.8	
3	Pyridine	79	3.135	3.125	(0.374)	601198	57.6115	57.6	
2	N-Nitrosodimethylamine	42	3.104	3.114	(0.370)	189796	47.5216	47.5	
5	2-Picoline	93	4.439	4.429	(0.530)	613805	58.7022	58.7	
6	N-Nitrosomethylethylamine	88	4.708	4.708	(0.562)	240671	51.9803	52.0	
7	Methyl Methanesulfonate	80	5.329	5.350	(0.636)	238138	42.8665	42.9	
9	N-Nitrosodiethylamine	102	6.116	6.137	(0.730)	245527	52.2174	52.2	
10	Ethyl Methanesulfonate	79	6.830	6.861	(0.815)	372306	50.8701	50.9	
11	Benzaldehyde	77	7.430	7.420	(0.886)	29486	13.1139	13.1(R)	
12	Aniline	93	7.699	7.720	(0.919)	703442	52.8432	52.8	
16	Bis(2-Chloroethyl)ether	93	7.896	7.917	(0.942)	451820	57.3873	57.4	
15	Phenol	94	7.906	7.896	(0.943)	590914	54.5445	54.5	
17	2-Chlorophenol	128	7.989	7.989	(0.953)	485309	53.7283	53.7	
18	1,3-Dichlorobenzene	146	8.248	8.258	(0.984)	555874	55.2940	55.3	
* 19	1,4-Dichlorobenzene-D4	152	8.382	8.393	(1.000)	289242	40.0000		
20	1,4-Dichlorobenzene	146	8.424	8.434	(1.005)	553392	55.7087	55.7	
21	1,2-Dichlorobenzene	146	8.755	8.765	(1.044)	534071	55.3833	55.4	
22	Benzyl alcohol	108	8.838	8.869	(1.054)	300100	48.5512	48.6	
23	Bis(2-Chloroisopropyl)ether	45	9.128	9.159	(1.089)	456999	39.8820	39.9(H)	
24	2,2'-Oxybis(1-chloropropane)	45	9.128	9.159	(1.089)	456999	39.9091	39.9(RH)	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9213.D
Report Date: 13-Jan-2015 13:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	25 2-Methylphenol	108	9.241	9.304	(1.102)	440052	50.3598	50.4	
	27 Acetophenone	105	9.376	9.386	(0.827)	1194332	100.323	100	
	31 Hexachloroethane	117	9.511	9.521	(1.135)	220120	58.0418	58.0	
	26 N-Nitrosopyrrolidine	100	9.335	9.469	(1.114)	207874	48.6037	48.6	
	29 o-Toluidine	106	9.448	9.480	(1.127)	652329	52.0804	52.1	
	28 N-Nitrosomorpholine	56	9.428	9.500	(1.125)	325689	55.4910	55.5	
	30 N-Nitroso-di-n-propylamine	70	9.448	9.521	(1.127)	277098	50.7291	50.7	
	32 3&4-Methylphenol	108	9.604	9.656	(1.146)	485894	52.5418	52.5	
	34 Nitrobenzene	77	9.718	9.759	(0.857)	474552	56.6163	56.6	
	35 N-Nitrosopiperidine	114	10.080	10.121	(0.889)	251210	52.7747	52.8	
	36 Isophorone	82	10.339	10.390	(0.911)	894699	54.6511	54.6	
	37 2-Nitrophenol	139	10.483	10.504	(0.924)	273164	55.5255	55.5	
	38 2,4-Dimethylphenol	107	10.804	10.835	(0.953)	467397	55.3464	55.3	
	40 Bis(2-Chloroethoxy)methane	93	10.949	10.991	(0.965)	665434	59.3269	59.3	
	39 O,O,O-Triethylphosphorothioat	198	10.928	10.949	(0.964)	198839	55.4033	55.4	
	41 2,4-Dichlorophenol	162	11.156	11.167	(0.984)	399089	54.8064	54.8	
	42 1,2,4-Trichlorobenzene	180	11.249	11.260	(0.992)	410771	54.2697	54.3	
*	44 Naphthalene-D8	136	11.342	11.353	(1.000)	1087280	40.0000		
	43 Benzoic acid	122	11.322	11.488	(0.998)	218544	58.9390	58.9(Q)	
	45 Naphthalene	128	11.384	11.415	(1.004)	1267172	57.5130	57.5	
	47 Hexachloropropene	213	11.643	11.653	(1.026)	245605	56.4389	56.4	
	48 2,6-Dichlorophenol	162	11.653	11.684	(1.027)	333738	52.9850	53.0	
	46 4-Chloroaniline	127	11.643	11.674	(1.026)	478118	52.8282	52.8	
	50 Hexachlorobutadiene	225	11.798	11.808	(1.040)	212173	56.3127	56.3	
	51 N-Nitroso-Di-N-Butylamine	84	12.564	12.605	(1.108)	367888	59.1732	59.2	
	53 Caprolactam	113	12.595	12.802	(1.110)	143503	50.0846	50.1(Q)	
	54 Isosafrole	162	12.999	13.019	(1.146)	312421	51.0443	51.0	
	56 2-Methylnaphthalene	142	13.102	13.133	(1.155)	1038903	57.9383	57.9	
	55 4-Chloro-3-Methylphenol	107	13.061	13.092	(1.151)	396427	54.6754	54.7(Q)	
	57 1-Methylnaphthalene	142	13.330	13.361	(1.175)	792419	53.6814	53.7	
	59 1,2,4,5-Tetrachlorobenzene	216	13.547	13.568	(0.866)	634342	121.373	121(R)	
	60 Hexachlorocyclopentadiene	237	13.557	13.578	(0.866)	169323	44.5628	44.6	
	62 2,4,6-Trichlorophenol	196	13.920	13.951	(0.890)	266780	54.6226	54.6	
	63 2,4,5-Trichlorophenol	196	14.075	14.075	(0.899)	287512	58.0528	58.0	
	61 Safrole	104	13.723	13.723	(0.877)	27395	46.5049	46.5	
	65 2-Chloronaphthalene	162	14.282	14.313	(0.913)	1043371	56.3636	56.4(H)	
	66 1,1'-Biphenyl	154	14.303	14.334	(0.914)	828747	50.4484	50.4	
	67 1-Chloronaphthalene	162	14.323	14.355	(0.915)	672915	48.4197	48.4	
	69 2-Nitroaniline	65	14.655	14.686	(0.937)	255895	55.6822	55.7	
	70 1,4-Naphthoquinone	158	14.758	14.779	(0.943)	277388	66.9938	67.0(R)	
	74 Acenaphthylene	152	15.276	15.307	(0.976)	1119154	50.1025	50.1	
	73 Dimethyl Phthalate	163	15.213	15.276	(0.972)	849763	53.7395	53.7	
	72 1,3-Dinitrobenzene	168	15.213	15.255	(0.972)	128318	51.7758	51.8	
	75 2,6-Dinitrotoluene	165	15.286	15.338	(0.977)	186011	53.1596	53.2	
*	77 Acenaphthene-D10	164	15.648	15.659	(1.000)	569690	40.0000		
	79 Acenaphthene	153	15.721	15.752	(1.005)	732224	55.1783	55.2	
	78 3-Nitroaniline	138	15.700	15.762	(1.003)	241077	54.9635	55.0	
	80 2,4-Dinitrophenol	184	15.979	16.042	(1.021)	116946	49.9899	50.0	
	82 Dibenzofuran	168	16.166	16.197	(1.033)	1009349	52.7169	52.7	
	81 Pentachlorobenzene	250	16.093	16.124	(1.028)	331777	53.7689	53.8	
	84 1-Naphthylamine	143	16.393	16.435	(1.048)	811661	48.0122	48.0	
	83 2,4-Dinitrotoluene	165	16.290	16.362	(1.041)	263308	53.6958	53.7	
	88 2-Naphthylamine	143	16.600	16.663	(1.061)	774393	51.5225	51.5	
	86 4-Nitrophenol	139	16.518	16.476	(1.056)	160468	53.2720	53.3(Q)	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9213.D
Report Date: 13-Jan-2015 13:01

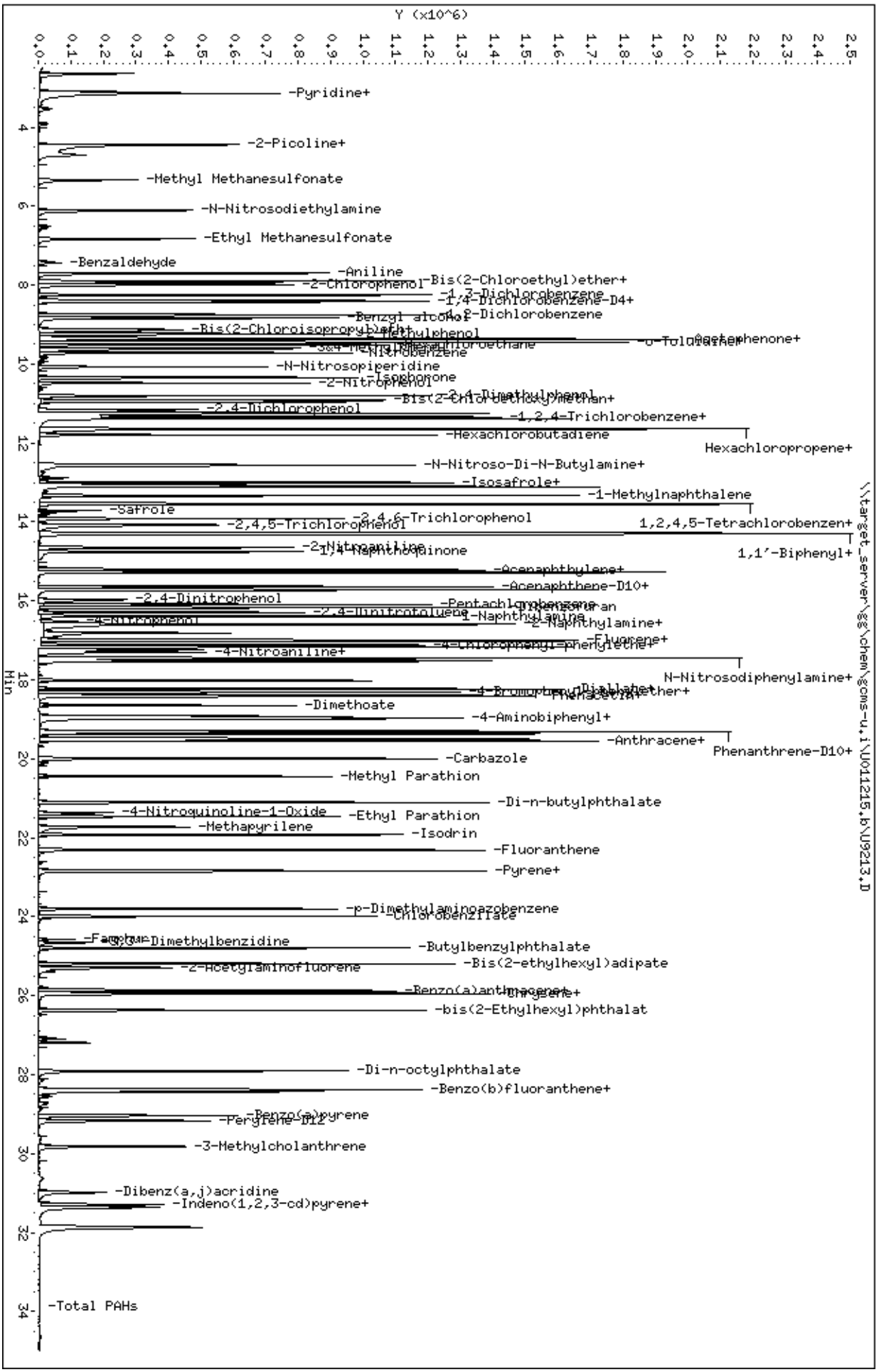
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
87	2,3,4,6-Tetrachlorophenol	232	16.590	16.632	(1.060)	180811	48.2966	48.3	
90	Fluorene	166	17.014	17.046	(1.087)	787637	52.3751	52.4	
89	Diethylphthalate	149	16.994	17.035	(1.086)	864858	53.4072	53.4	
91	4-Chlorophenyl-phenylether	204	17.118	17.139	(1.094)	380353	52.6848	52.7	
92	O,O-diethyl-o-2-pyrazinylphos	107	17.170	17.222	(1.097)	174963	53.2604	53.3	
94	5-Nitro-O-Toluidine	152	17.180	17.242	(1.098)	244768	50.1552	50.2	
95	4-Nitroaniline	138	17.242	17.315	(1.102)	219739	51.3784	51.4	
96	4,6-Dinitro-2-Methylphenol	198	17.294	17.356	(0.895)	152613	57.0675	57.1	
97	N-Nitrosodiphenylamine	169	17.449	17.491	(0.904)	1133053	92.1451	92.1	
98	N-Nitrosodiphenylamine/DPA	169	17.449	17.491	(0.904)	1133053	92.1451	92.1	
99	1,2-Diphenylhydrazine	77	17.501	17.532	(0.906)	885304	54.0692	54.1	
100	Azobenzene	77	17.501	17.532	(0.906)	885304	54.2597	54.2	
93	Sulfotepp	97	17.159	17.222	(0.889)	194993	53.7545	53.8(Q)	
103	Diallate	86	18.225	18.257	(0.944)	333213	56.3680	56.4	
104	4-Bromophenyl-phenylether	248	18.308	18.339	(0.948)	225922	55.4555	55.4	
102	Phorate	75	18.225	18.267	(0.944)	291732	31.6708	31.7(RH)	
105	1,3,5-Trinitrobenzene	213	18.318	18.370	(0.949)	60931	25.3554	25.4(QR)	
107	Phenacetin	108	18.422	18.515	(0.954)	424954	51.5422	51.5	
106	Hexachlorobenzene	284	18.401	18.432	(0.953)	262135	54.5367	54.5	
108	Dimethoate	87	18.650	18.722	(0.966)	310742	51.7849	51.8	
109	Atrazine	200	18.919	18.971	(0.980)	82814	25.4570	25.4(QRH)	
112	4-Aminobiphenyl	169	18.991	19.022	(0.983)	495107	38.2545	38.2(R)	
111	Pentachlorophenol	266	18.971	19.012	(0.982)	157932	59.5504	59.6	
110	Pentachloronitrobenzene	237	18.960	18.991	(0.982)	98583	55.0616	55.1	
* 114	Phenanthrene-D10	188	19.312	19.333	(1.000)	837762	40.0000		
113	Pronamide	173	19.312	19.354	(1.000)	333507	53.6940	53.7	
115	Phenanthrene	178	19.374	19.405	(1.003)	1176370	54.3421	54.3	
116	Anthracene	178	19.488	19.530	(1.009)	1178963	54.6911	54.7	
118	Disulfoton	88	19.540	19.561	(1.012)	396284	46.4723	46.5	
117	Dinoseb	211	19.540	19.561	(1.012)	176585	55.6586	55.6	
119	Carbazole	167	19.995	20.026	(1.035)	1000651	52.1287	52.1	
120	Methyl Parathion	109	20.440	20.461	(1.058)	299320	58.5083	58.5	
121	Di-n-butylphthalate	149	21.113	21.134	(1.093)	1478138	55.2867	55.3	
122	4-Nitroquinoline-1-Oxide	190	21.372	21.393	(1.107)	61639	40.9774	41.0	
123	Ethyl Parathion	291	21.465	21.496	(1.111)	68830	53.1502	53.2	
124	Methapyrilene	97	21.724	21.745	(1.125)	239674	44.3089	44.3	
125	Isodrin	193	21.920	21.941	(1.135)	150925	53.7626	53.8	
126	Fluoranthene	202	22.314	22.345	(1.155)	1060808	51.9293	51.9	
128	Pyrene	202	22.841	22.873	(0.882)	1092583	53.6925	53.7	
127	Benzidine	184	22.841	22.831	(0.882)	84594	17.1446	17.1(aR)	
131	p-Dimethylaminoazobenzene	225	23.804	23.835	(0.919)	186226	50.7352	50.7	
132	Chlorobenzilate	251	23.990	24.011	(0.926)	281986	53.7502	53.8	
134	3,3'-Dimethylbenzidine	212	24.653	24.663	(0.952)	159294	34.0778	34.1(R)	
135	Butylbenzylphthalate	149	24.798	24.819	(0.958)	534889	52.9124	52.9	
136	Bis(2-ethylhexyl)adipate	129	25.191	25.212	(0.973)	454406	50.8539	50.8	
137	2-Acetylaminofluorene	181	25.294	25.326	(0.977)	288959	51.9870	52.0	
138	Benzo(a)anthracene	228	25.864	25.885	(0.999)	728217	51.4927	51.5	
* 139	Chrysene-D12	240	25.895	25.916	(1.000)	584536	40.0000		
141	Chrysene	228	25.947	25.978	(1.002)	700440	54.5905	54.6	
140	3,3'-Dichlorobenzidine	252	25.947	25.957	(1.002)	201380	46.9871	47.0(R)	
142	bis(2-Ethylhexyl)phthalate	149	26.371	26.392	(1.018)	734711	53.1812	53.2	
144	Di-n-octylphthalate	149	27.913	27.924	(0.957)	1133335	50.3210	50.3	
145	Benzo(b)fluoranthene	252	28.379	28.400	(0.973)	596747	53.2284	53.2	
146	7,12-Dimethylbenz(A)Anthracen	256	28.389	28.410	(0.973)	294127	50.7326	50.7	

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\U9213.D
Report Date: 13-Jan-2015 13:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
147	Benzo(k)fluoranthene	252	28.431	28.462	(0.975)	615357	52.5846	52.6(H)	
148	Benzo(a)pyrene	252	29.041	29.052	(0.996)	511835	51.4022	51.4	
* 150	Perylene-D12	264	29.165	29.166	(1.000)	420733	40.0000		
151	3-Methylcholanthrene	268	29.828	29.828	(1.023)	255268	54.5389	54.5	
152	Dibenz(a,j)acridine	279	30.987	30.977	(1.062)	289549	57.2376	57.2	
153	Indeno(1,2,3-cd)pyrene	276	31.298	31.308	(1.073)	336786	60.1743	60.2(R)	
154	Dibenzo(a,h)anthracene	278	31.370	31.370	(1.076)	347636	57.4659	57.5	
155	Benzo(g,h,i)perylene	276	31.856	31.857	(1.092)	363264	56.5225	56.5	
M 156	Total PAHs	100				14446515	978.905	979	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.



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Client ID:
Sample Info: WG156827-8,SIO027
Volume Injected (uL): 1.0
Column phase: ZB5-MS

Instrument: gcms-u,i
Operator: JCG
Column diameter: 0.25

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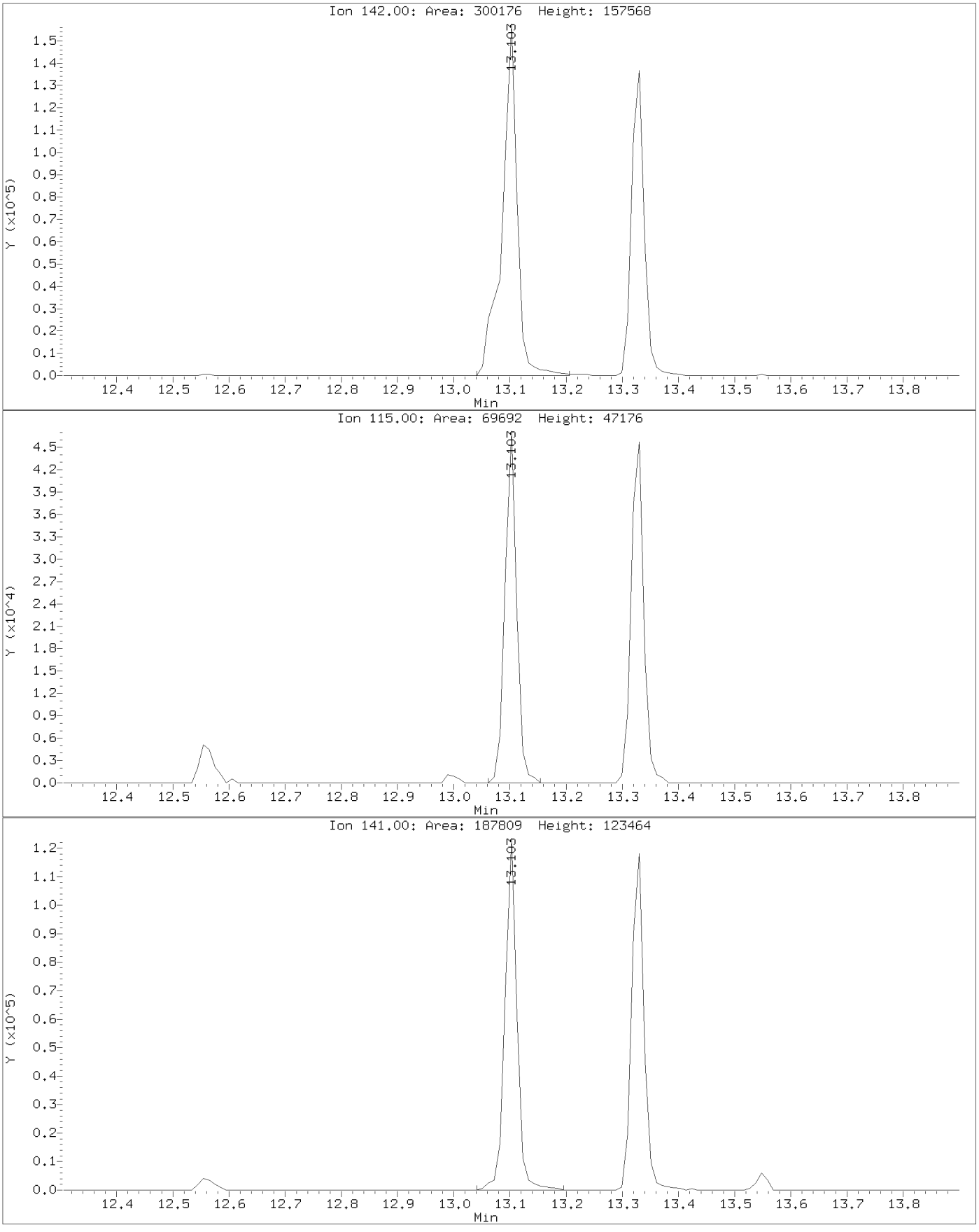
Injection Date: 12-JAN-2015 13:57
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylnaphthalene
CAS Number: 91-57-6

BEFORE MANUAL INTEGRATION



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Compound: 2-Methylnaphthalene
CAS Number: 91-57-6

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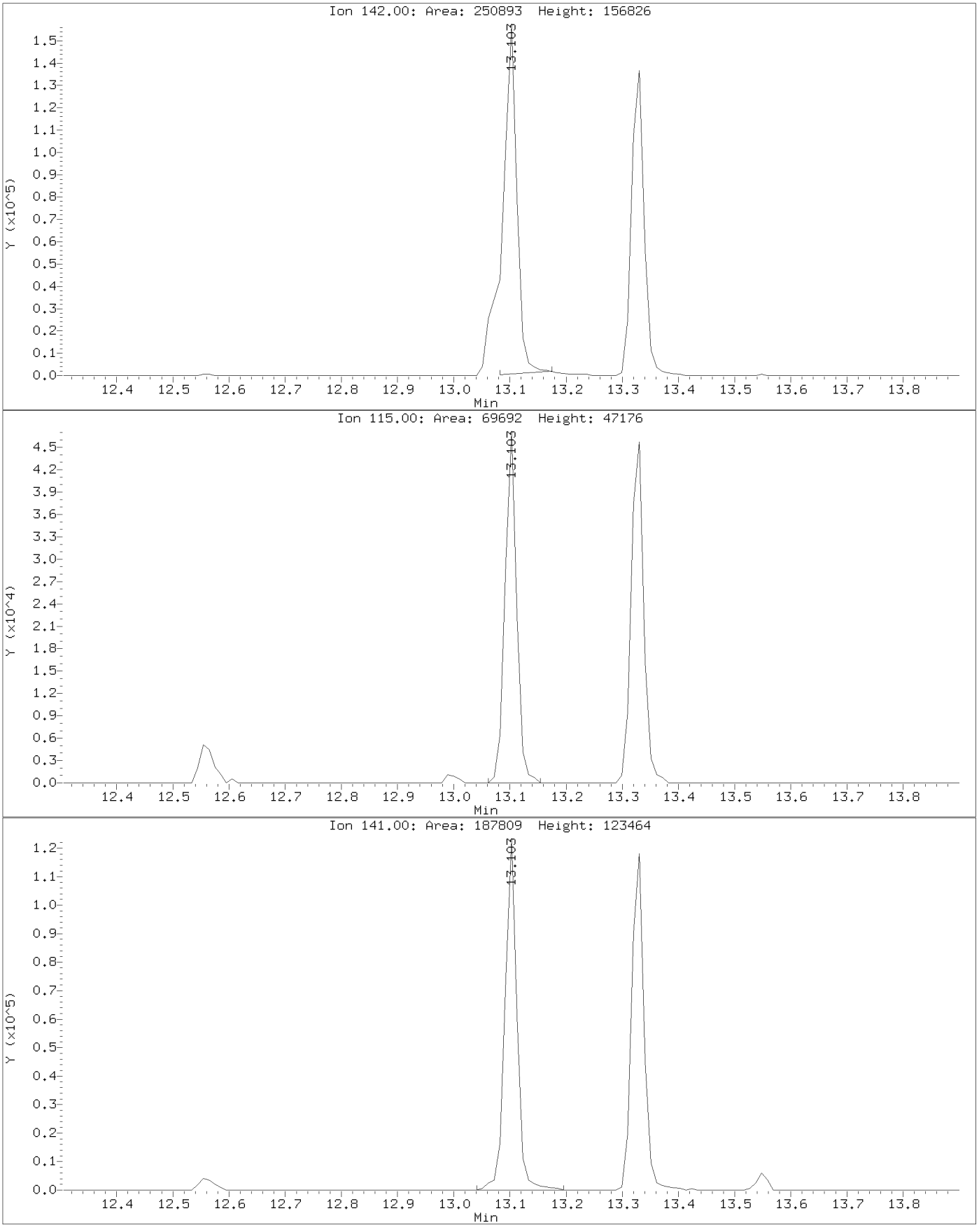

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Instrument: gcms-u.i
Client Sample ID:

Compound: Dimethyl Phthalate
CAS Number: 131-11-3

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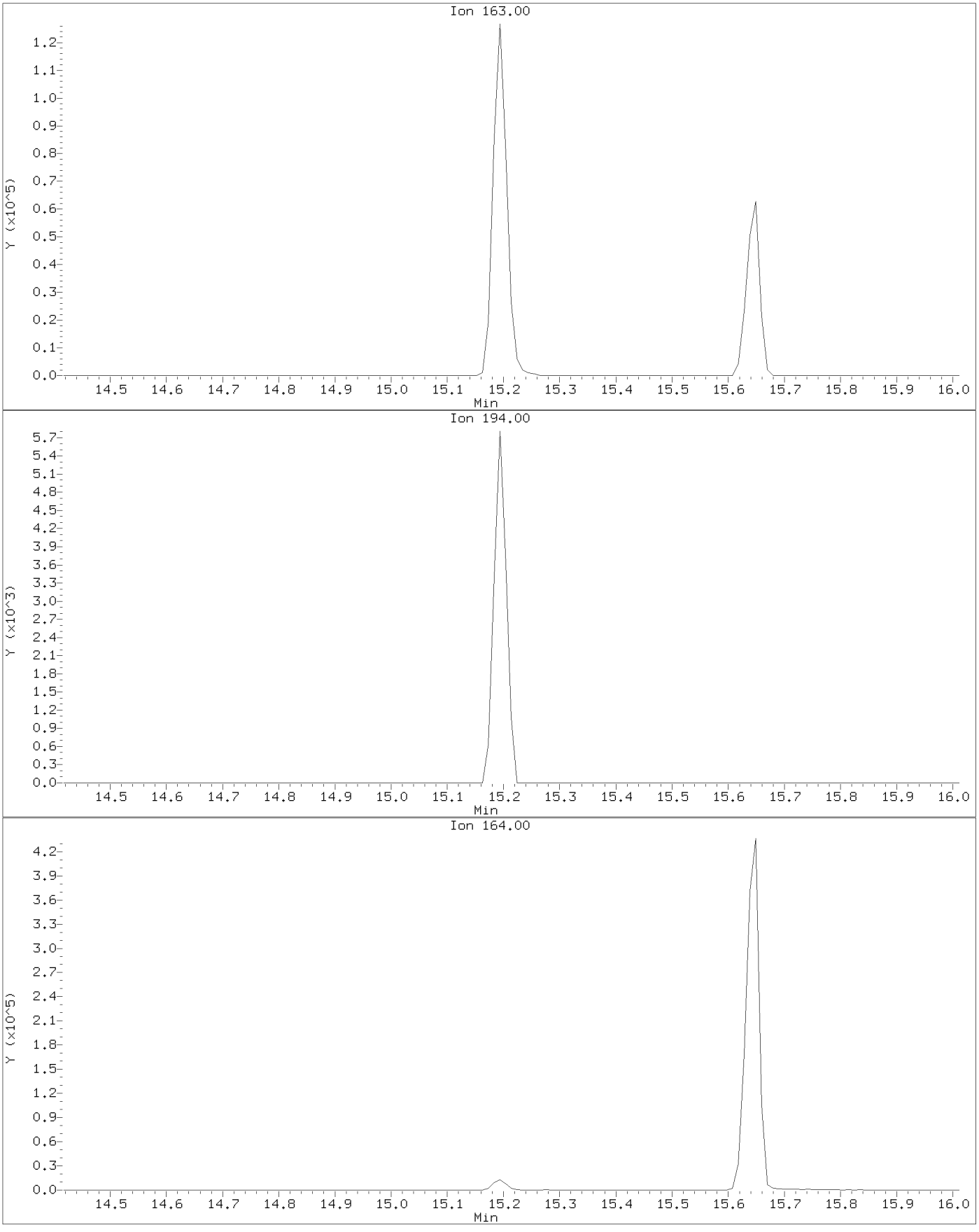

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Instrument: gcms-u.i
Client Sample ID:

Compound: Dimethyl Phthalate
CAS Number: 131-11-3

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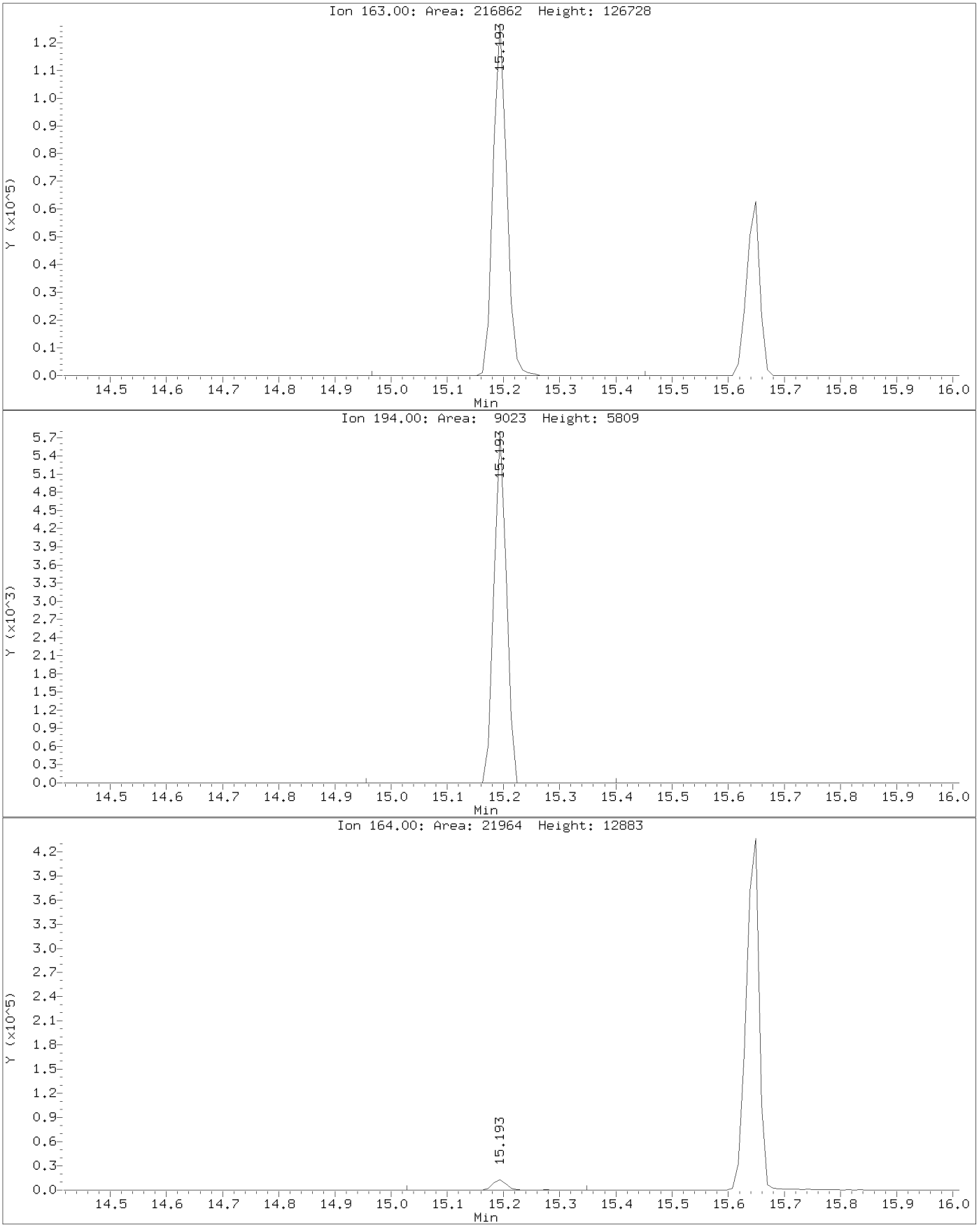

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Injection Date: 12-JAN-2015 15:25
Instrument: gcms-u.i
Client Sample ID:

Compound: 4-Nitrophenol
CAS Number: 100-02-7

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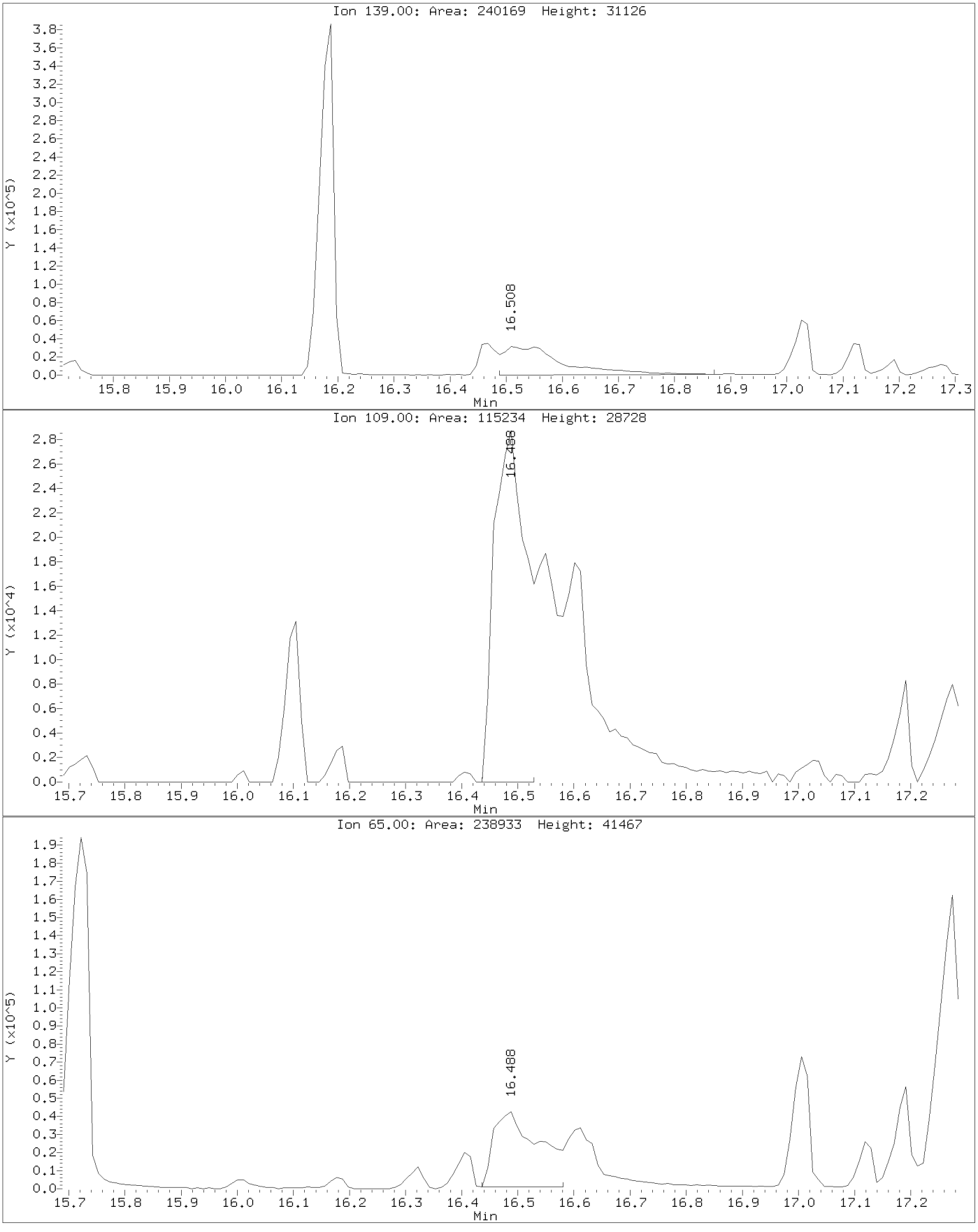

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Compound: 4-Nitrophenol
CAS Number: 100-02-7

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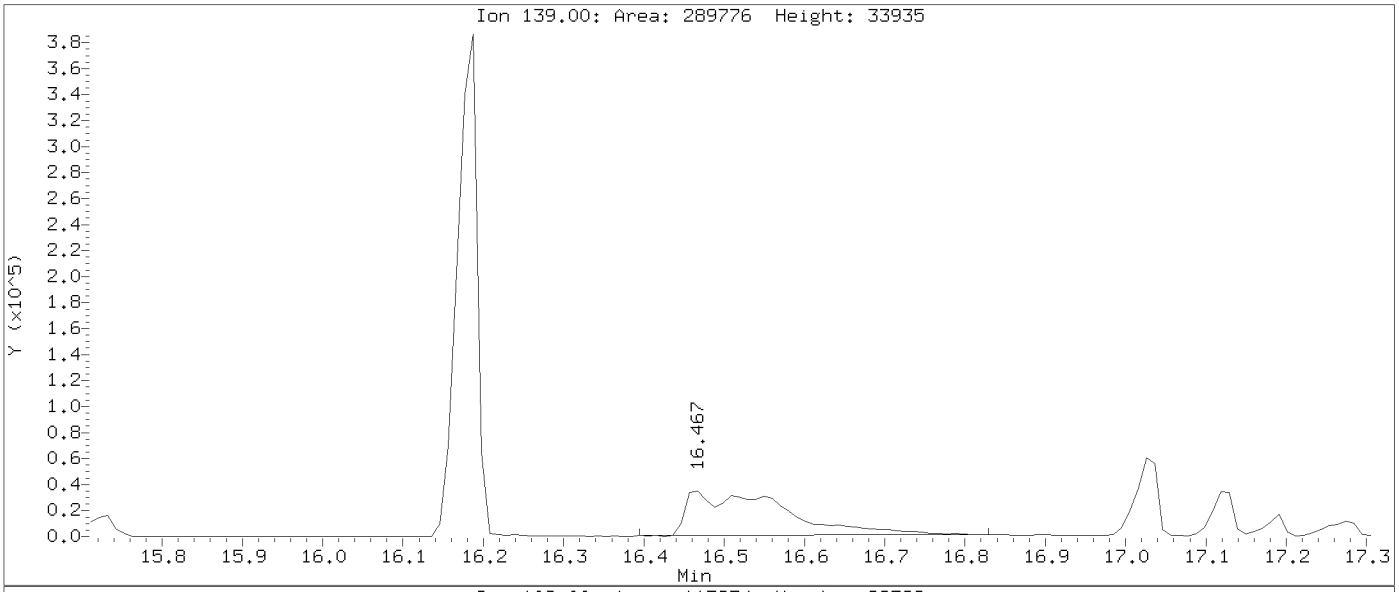

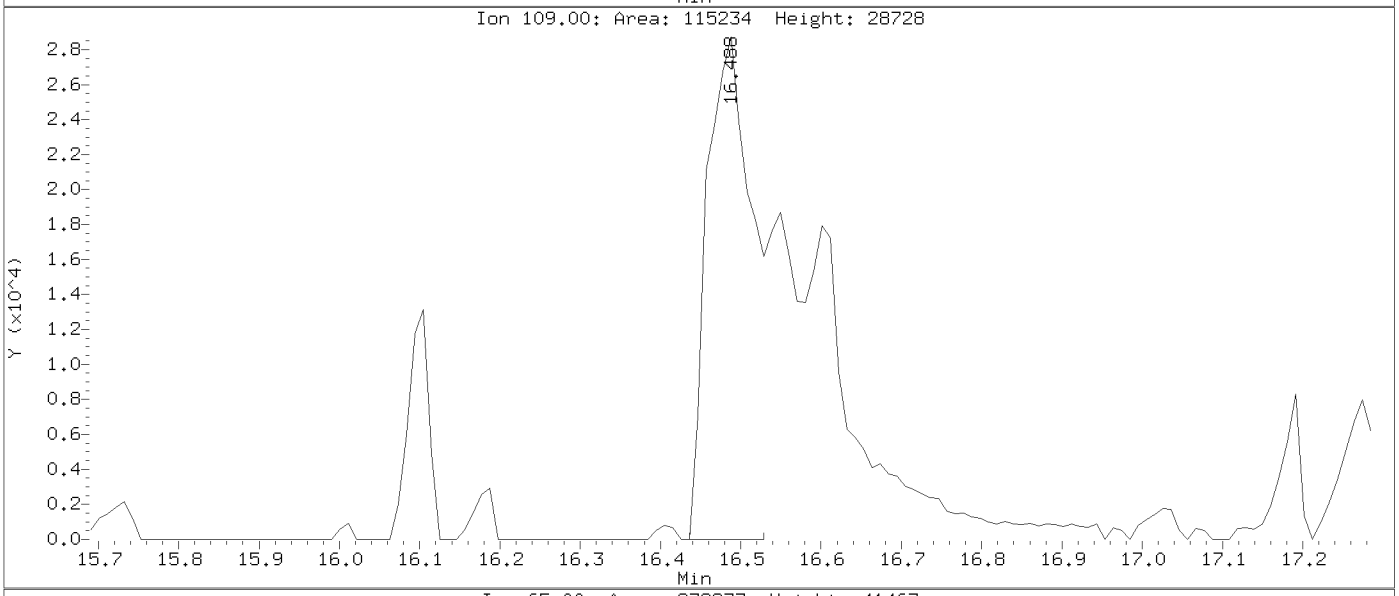

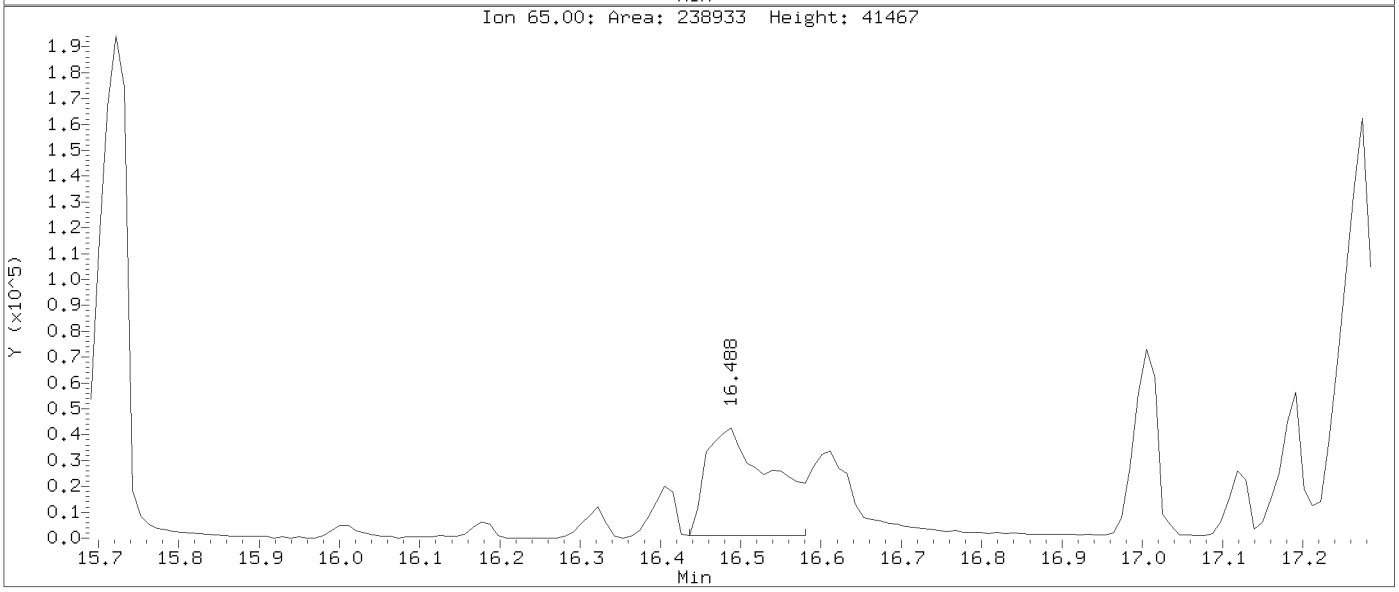

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Injection Date: 12-JAN-2015 16:09
Instrument: gcms-u.i
Client Sample ID:

Compound: 4-Nitrophenol
CAS Number: 100-02-7

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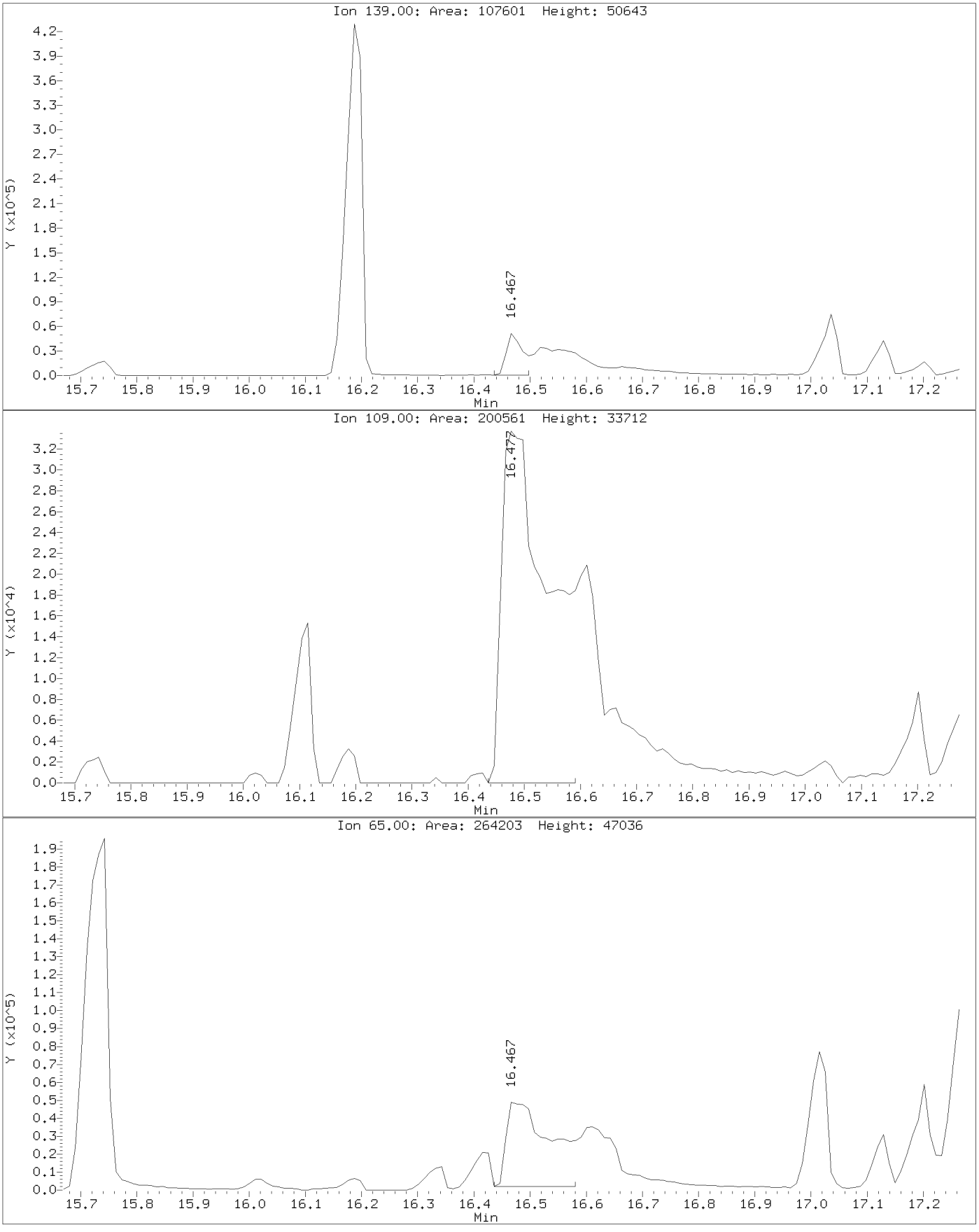

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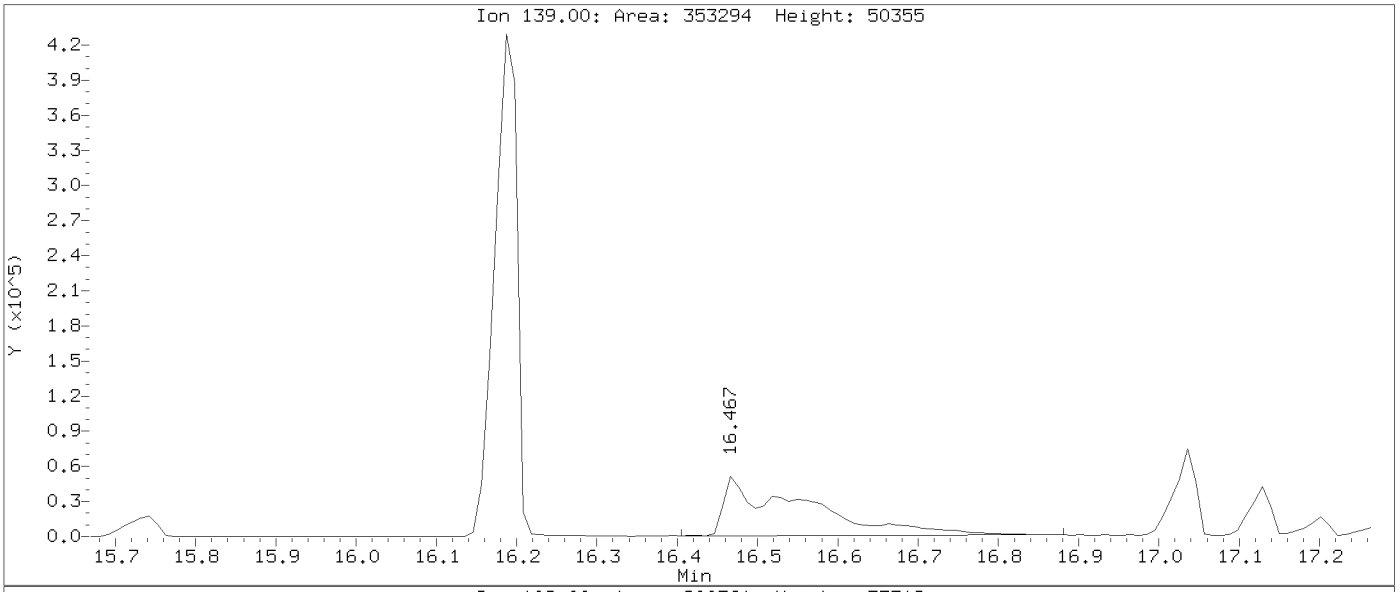
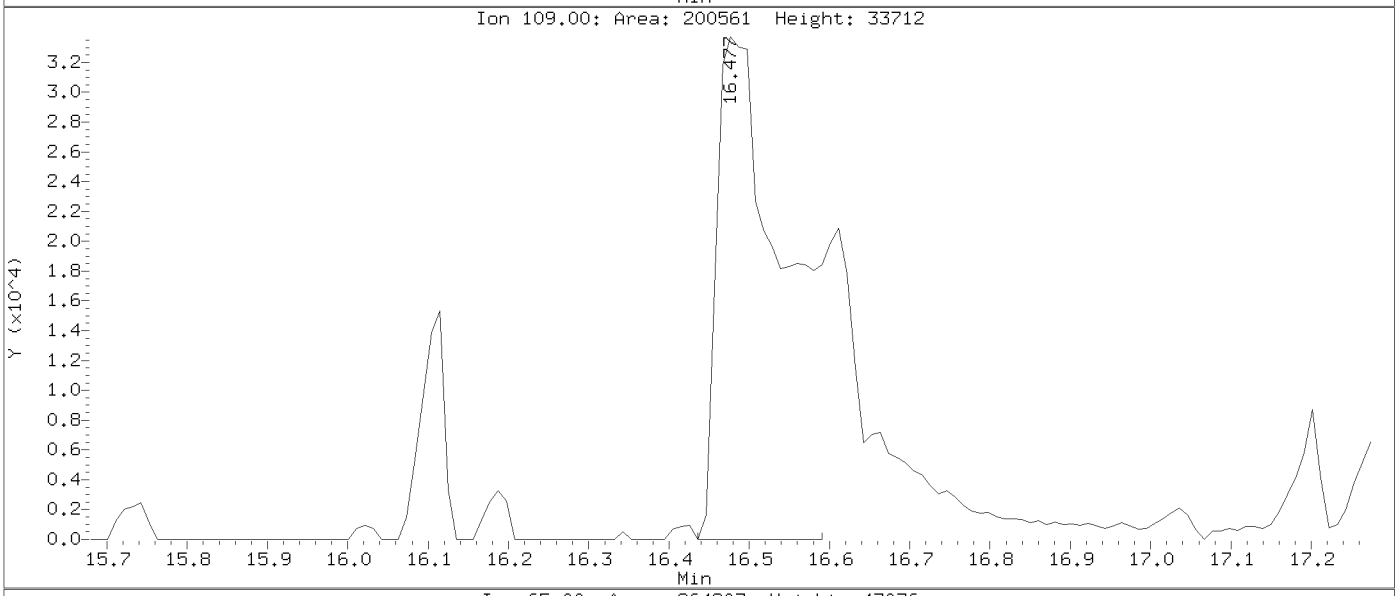
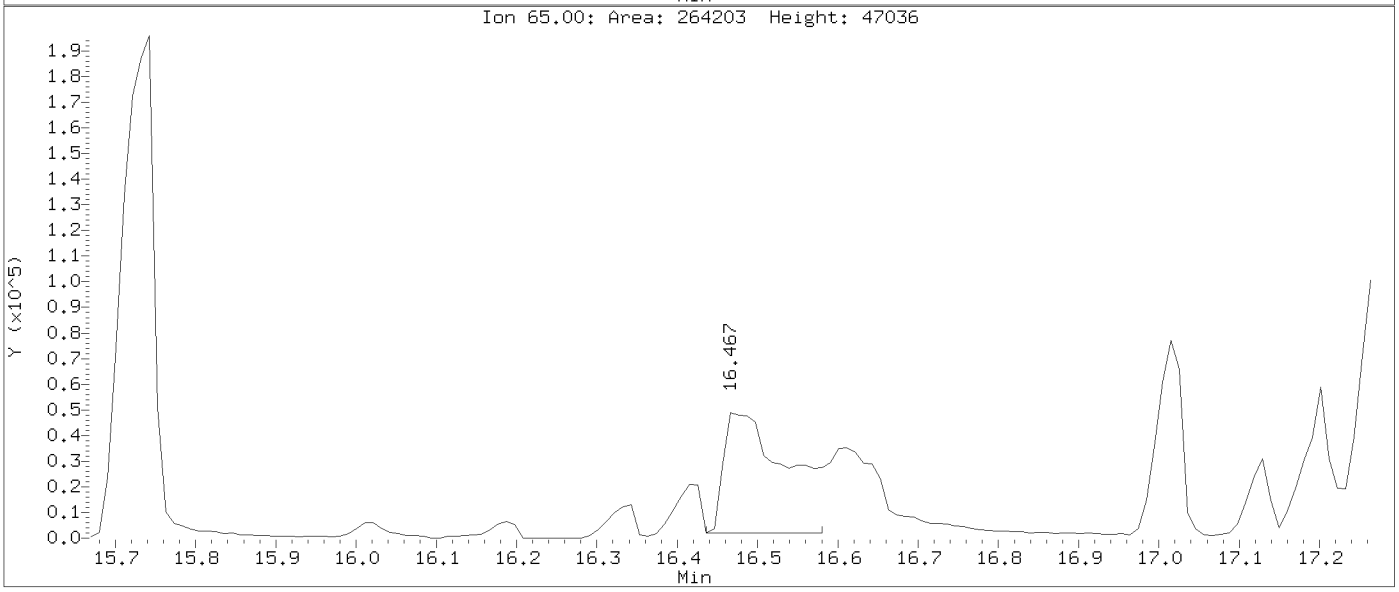
Instrument: gcms-u.i
Client Sample ID:

Compound: 4-Nitrophenol
CAS Number: 100-02-7

AFTER MANUAL INTEGRATION







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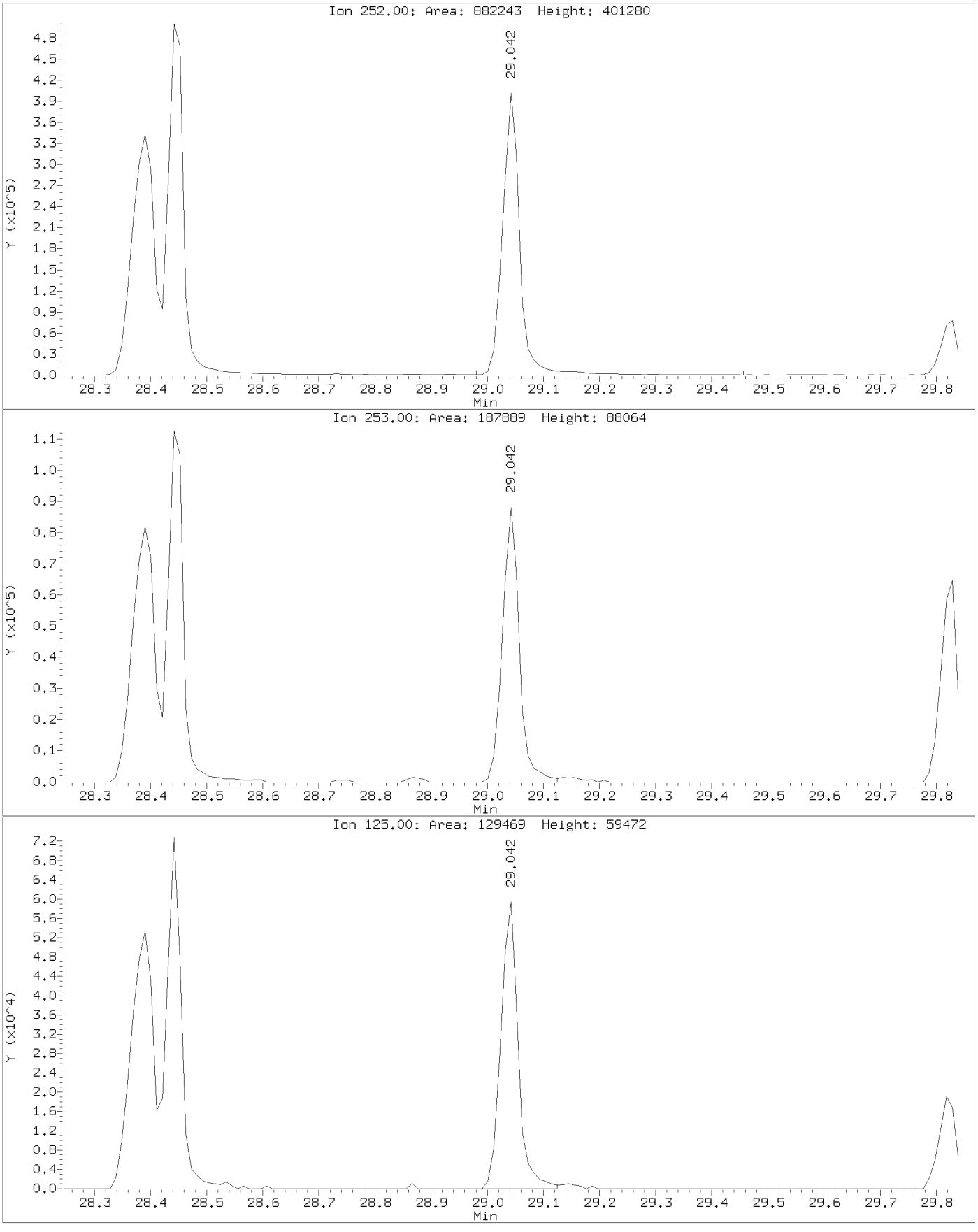
Injection Date: 12-JAN-2015 16:09
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

BEFORE MANUAL INTEGRATION



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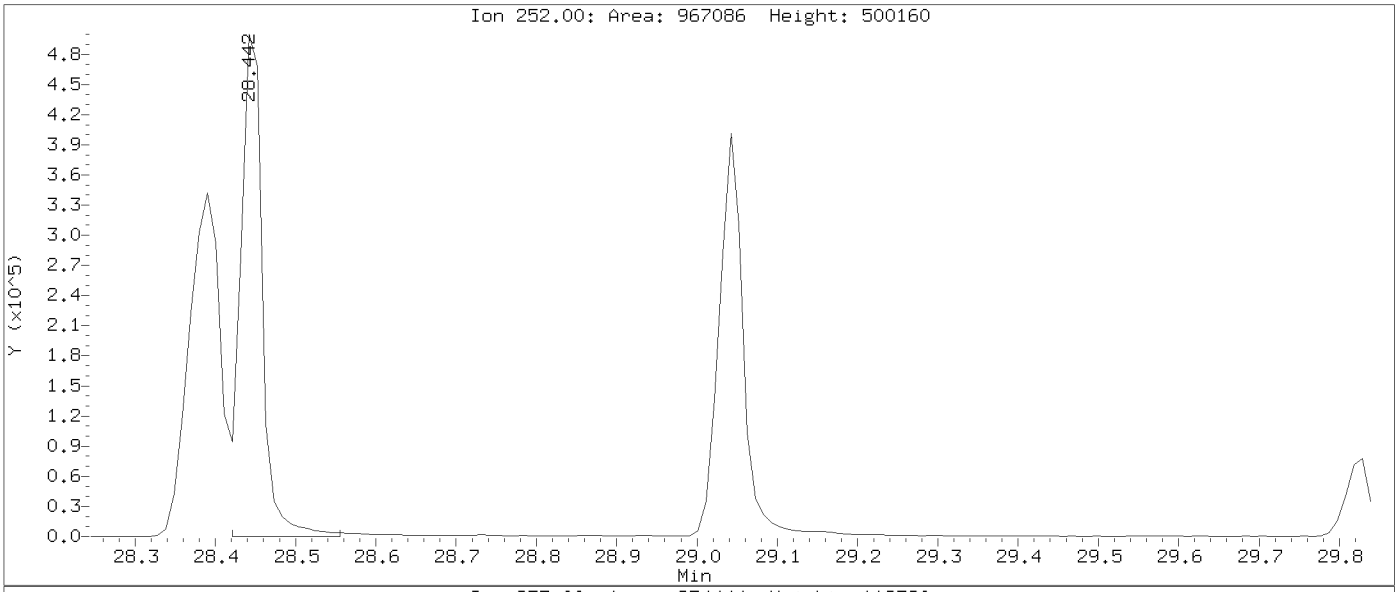
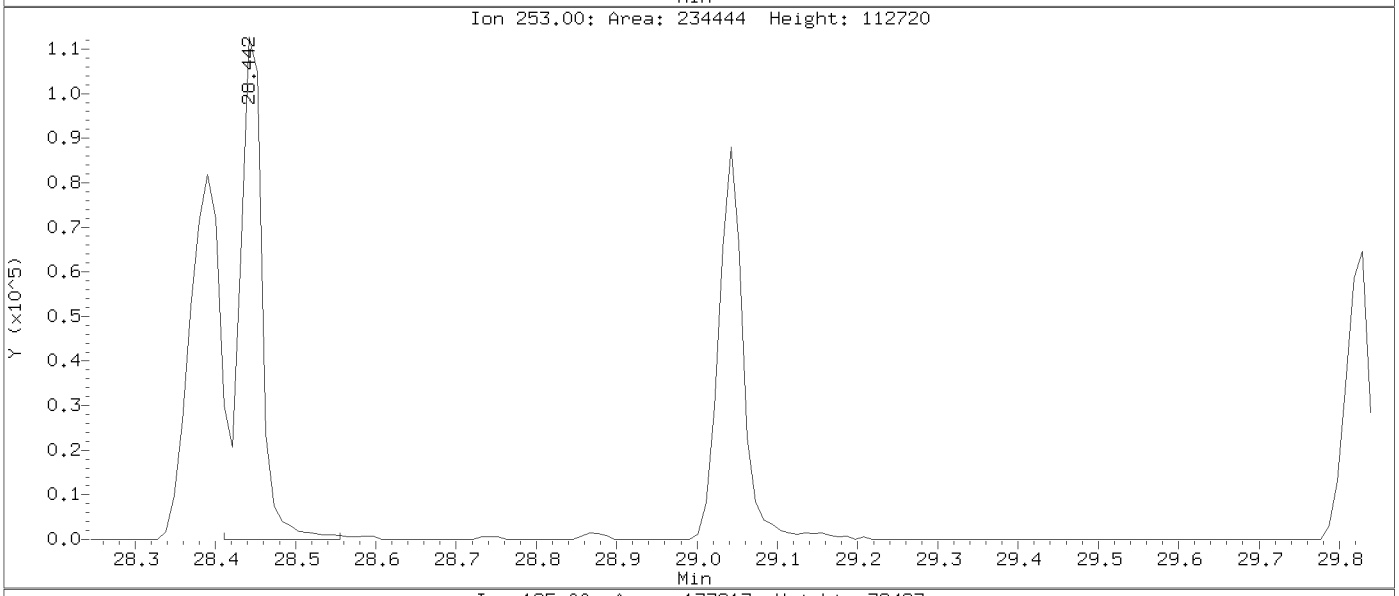
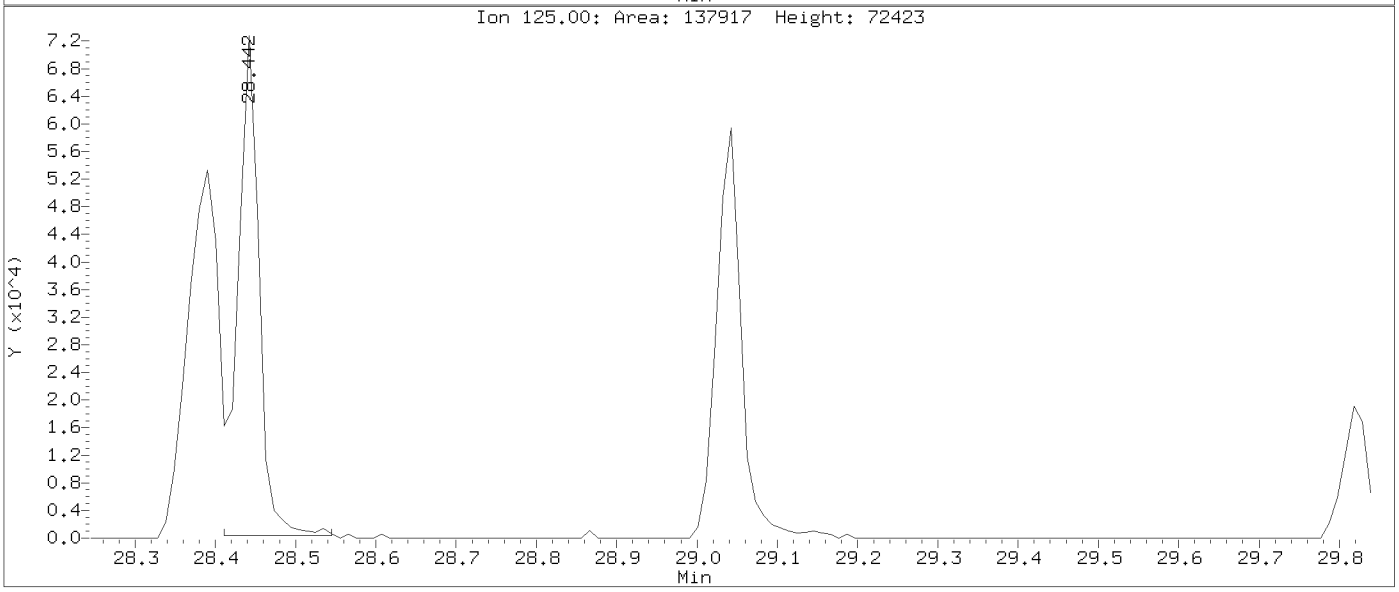
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

AFTER MANUAL INTEGRATION







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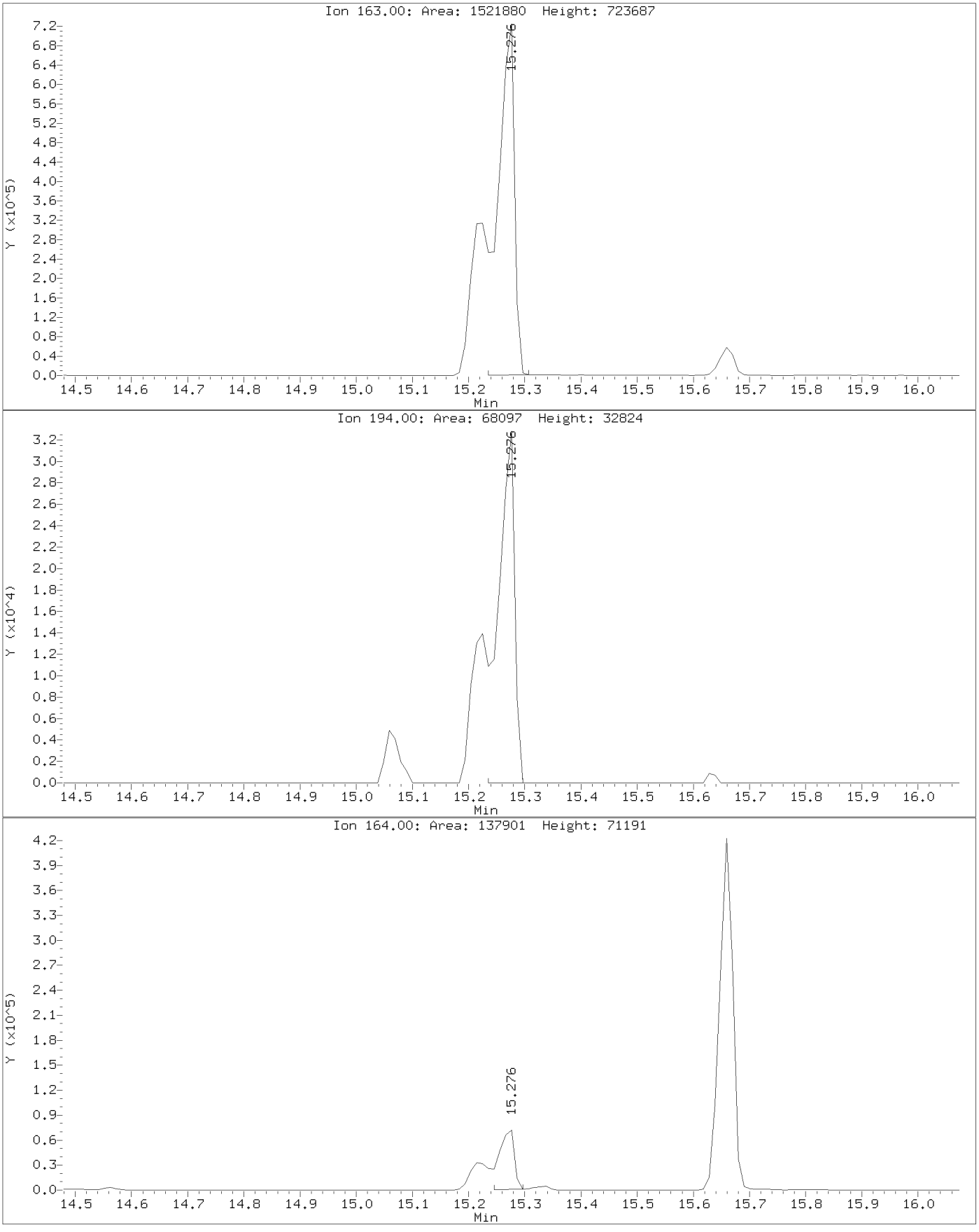
Injection Date: 12-JAN-2015 16:53
Instrument: gcms-u.i
Client Sample ID:

Compound: Dimethyl Phthalate
CAS Number: 131-11-3

BEFORE MANUAL INTEGRATION



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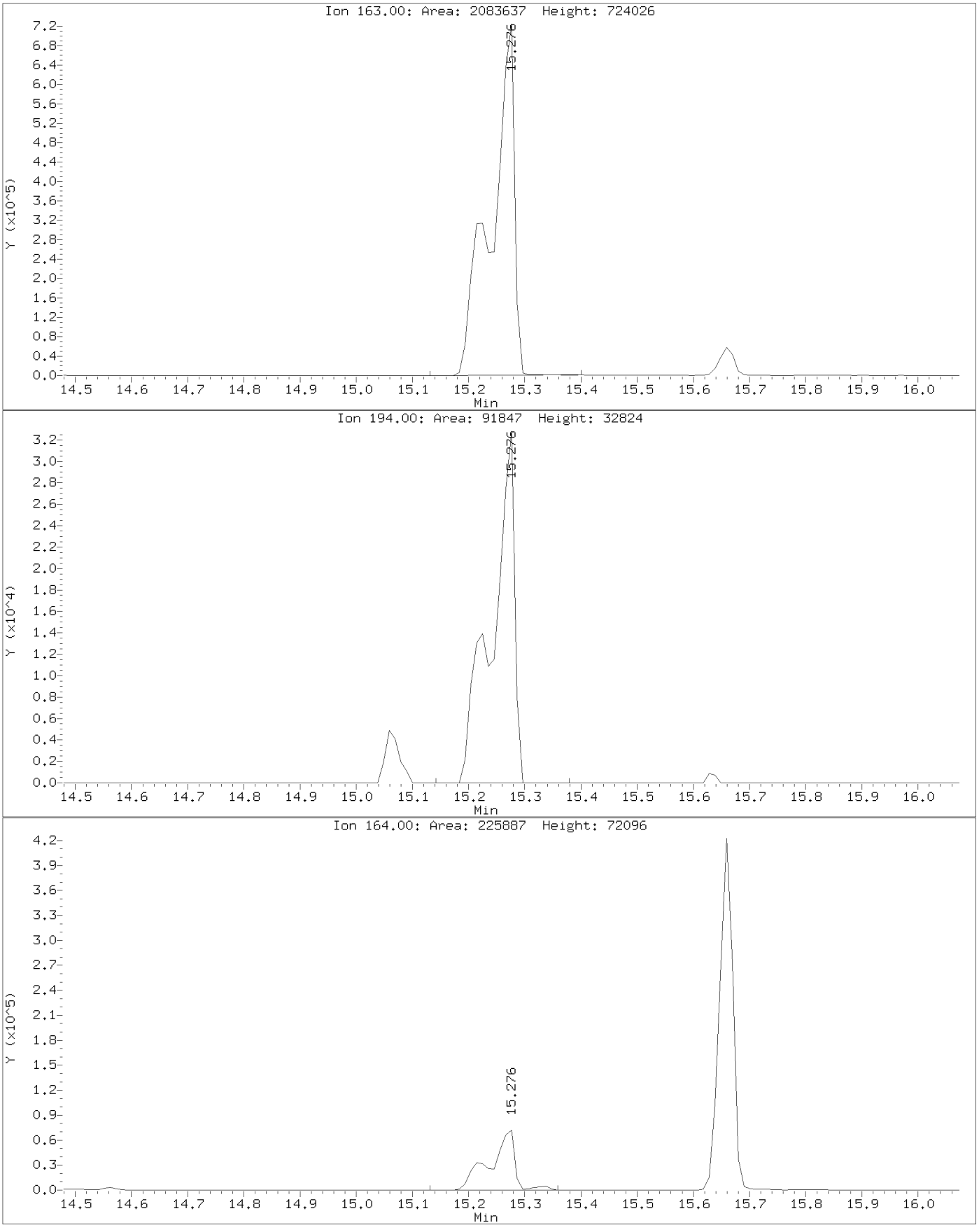
Injection Date: 12-JAN-2015 16:53
Instrument: gcms-u.i
Client Sample ID:

Compound: Dimethyl Phthalate
CAS Number: 131-11-3

AFTER MANUAL INTEGRATION



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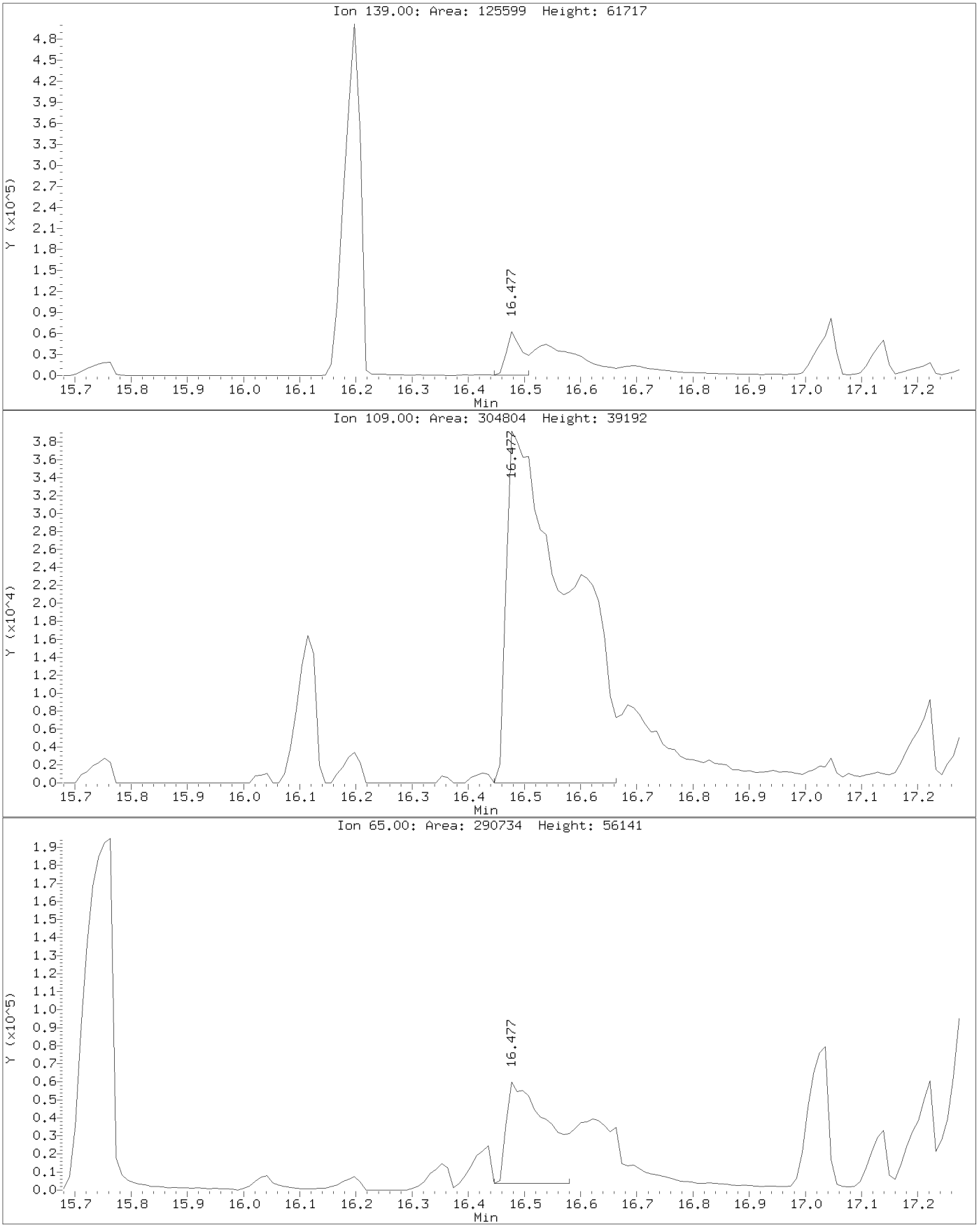
Injection Date: 12-JAN-2015 16:53
Instrument: gcms-u.i
Client Sample ID:

Compound: 4-Nitrophenol
CAS Number: 100-02-7

BEFORE MANUAL INTEGRATION



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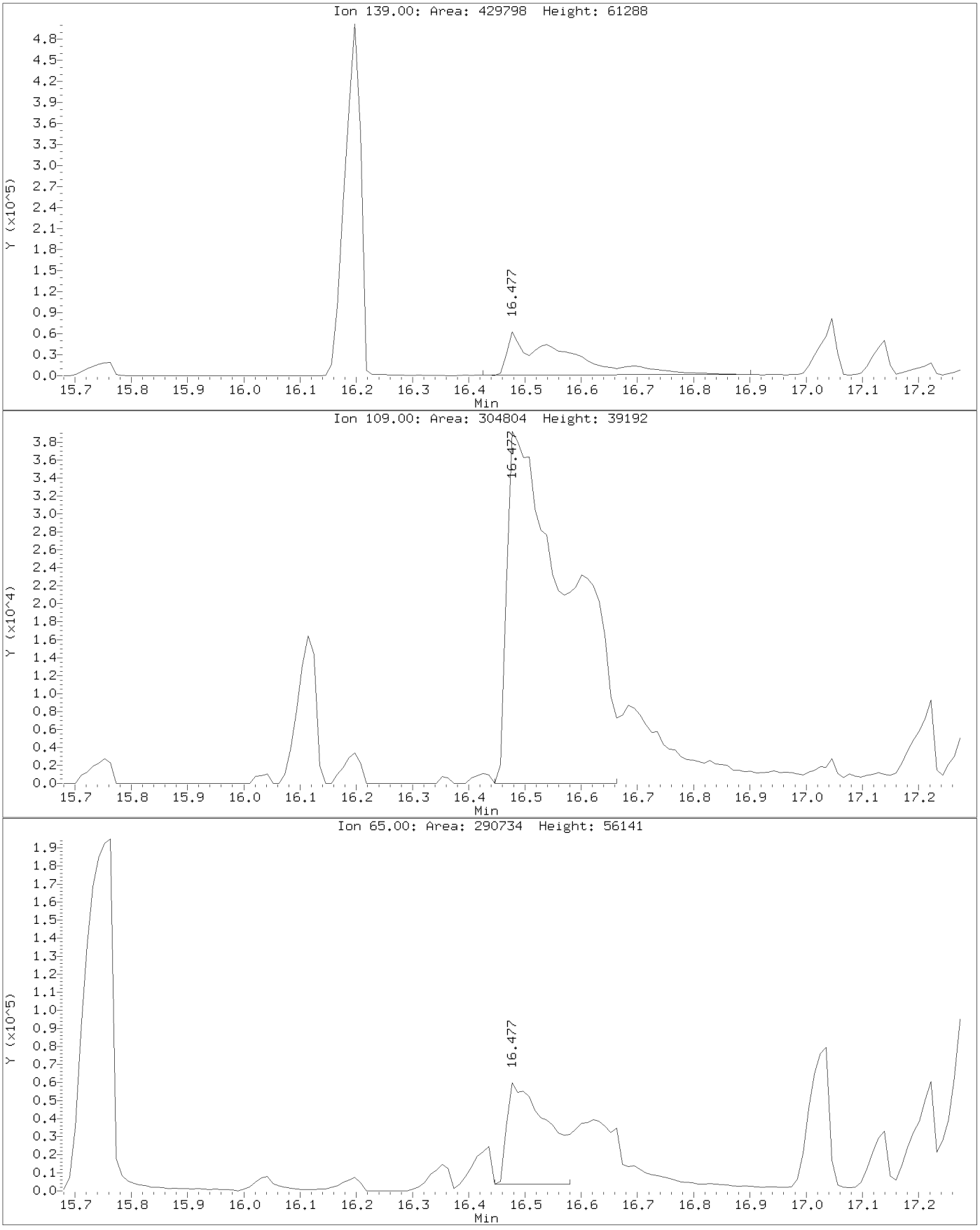
Injection Date: 12-JAN-2015 16:53
Instrument: gcms-u.i
Client Sample ID:

Compound: 4-Nitrophenol
CAS Number: 100-02-7

AFTER MANUAL INTEGRATION



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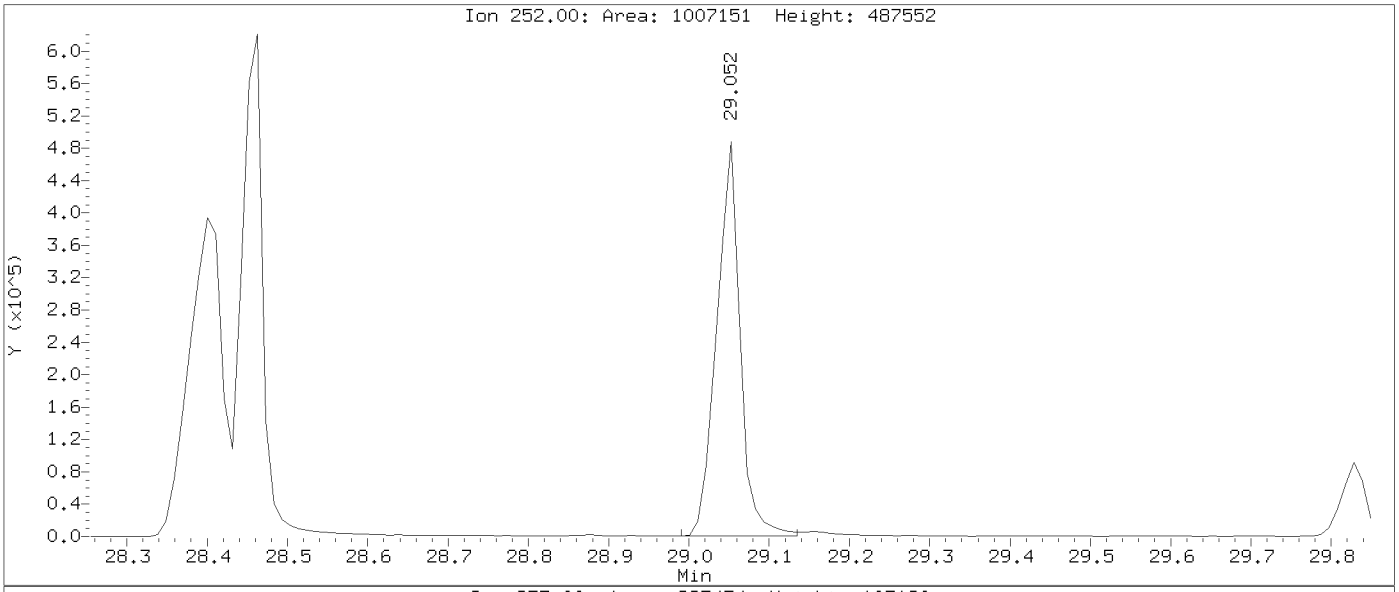
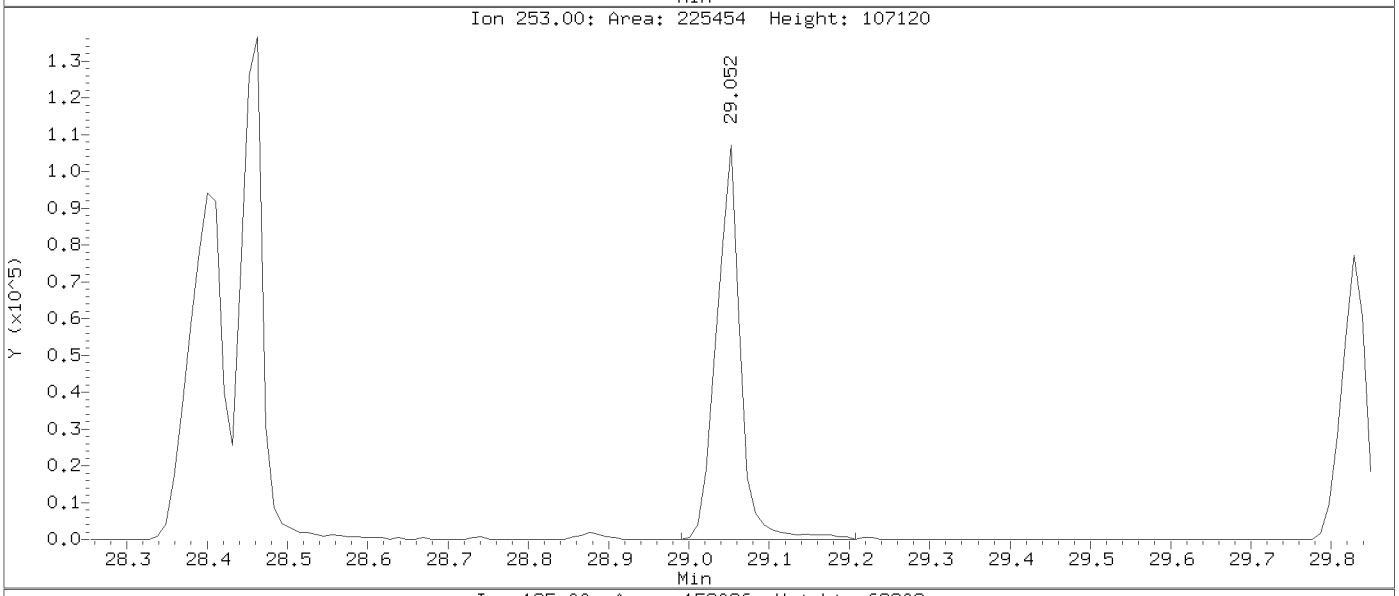
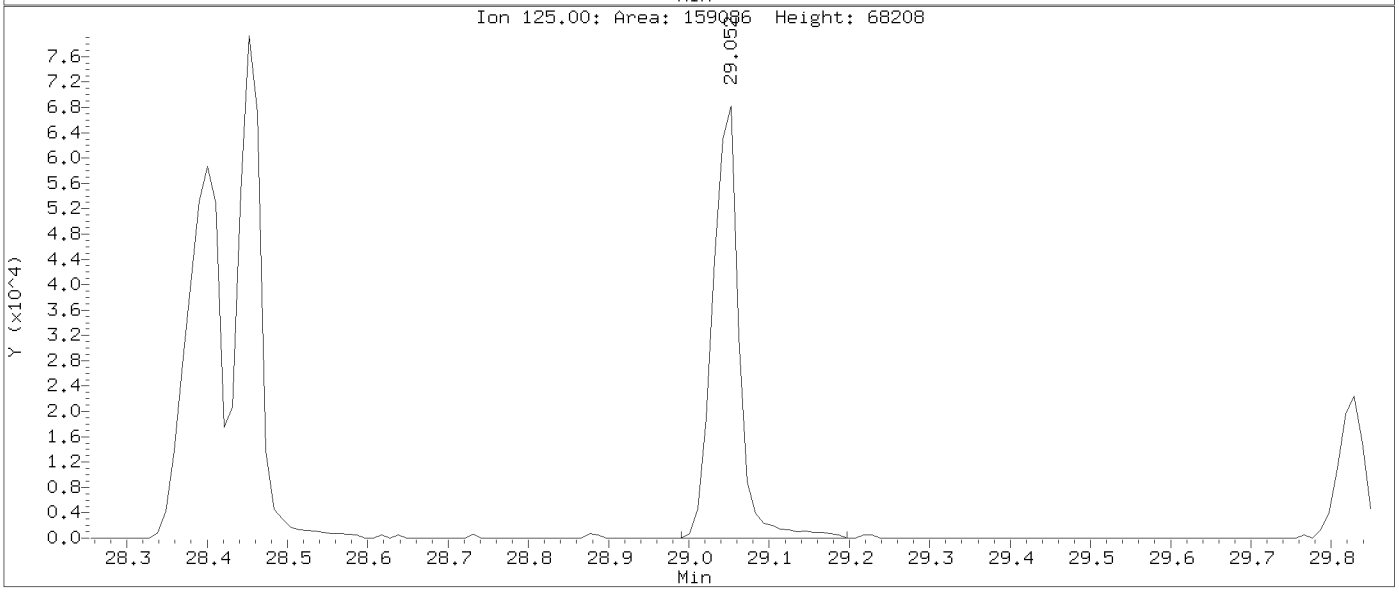
Injection Date: 12-JAN-2015 16:53
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

BEFORE MANUAL INTEGRATION







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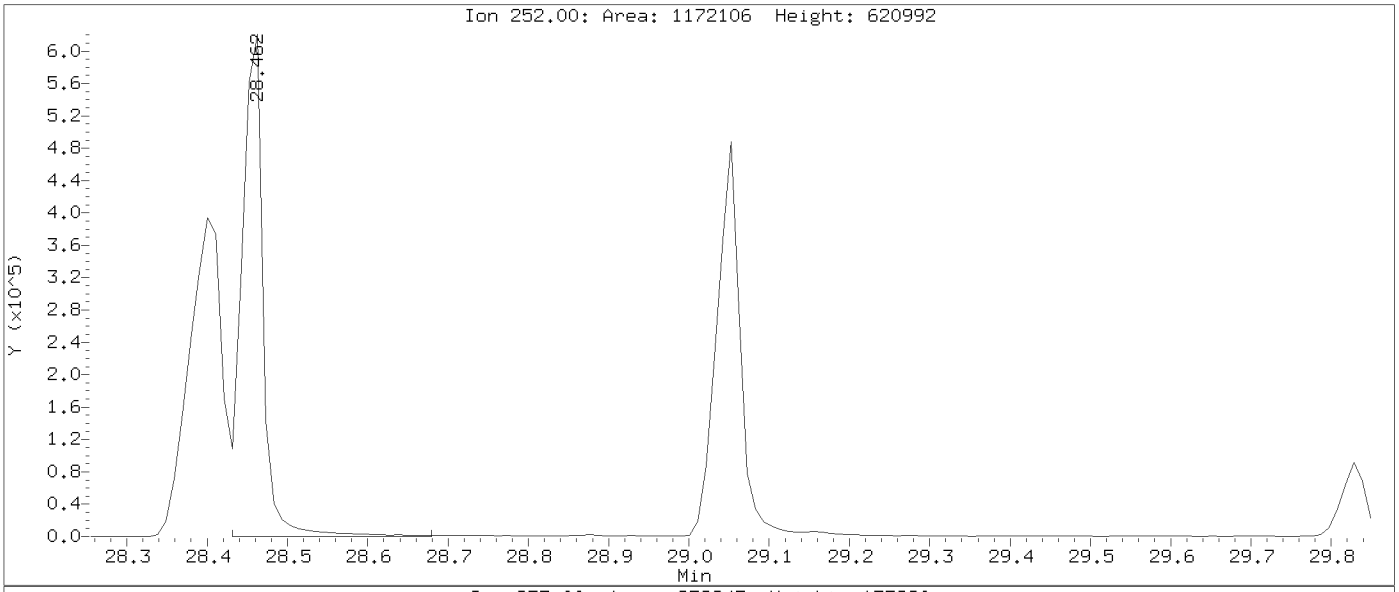
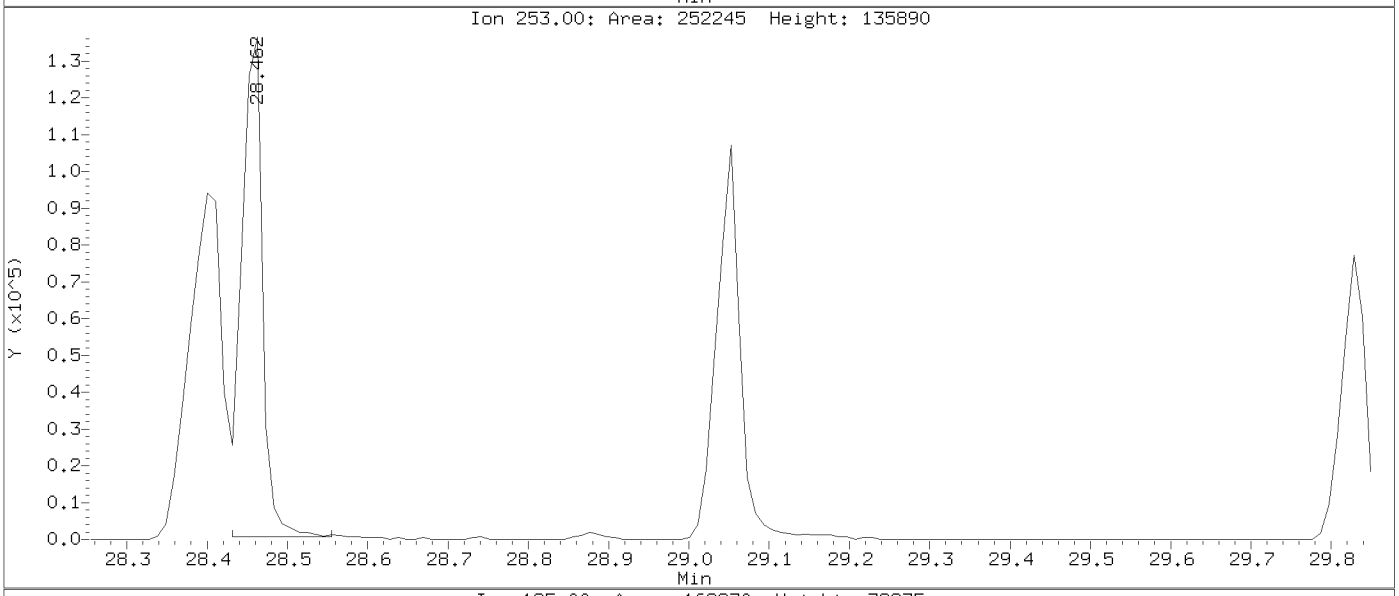
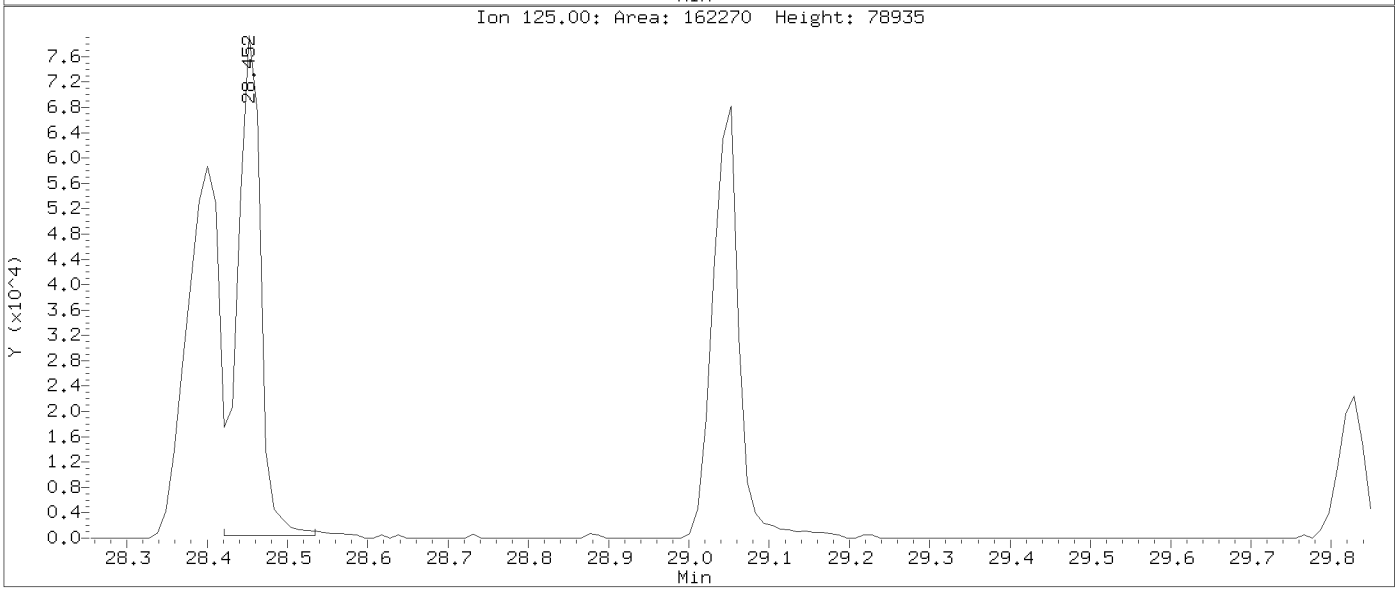
Injection Date: 12-JAN-2015 16:53
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

AFTER MANUAL INTEGRATION







Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I **SDG:** SI0230
Lab ID : WG157161-2 **Analytical Date:** 01/19/15 11:31
Lab File ID : U9269.D **Instrument ID:** GCMS-U
Initial Calibration Date(s): 01/12/15 13:06 01/12/15 16:53 **Column ID:**

	Compound	$\overline{\text{RRF}}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
15	Phenol	1.49821	1.42966	1.42966	0.010	-4.57505	20.01000	Averaged	
16	Bis(2-Chloroethyl)ether	1.08880	1.04981	1.04981	0.010	-3.58148	20.00000	Averaged	
17	2-Chlorophenol	1.24915	1.24419	1.24419	0.010	-0.39671	20.00000	Averaged	
18	1,3-Dichlorobenzene	1.39026	1.38580	1.38580	0.010	-0.32088	20.00000	Averaged	
20	1,4-Dichlorobenzene	1.37375	1.35323	1.35323	0.010	-1.49388	20.01000	Averaged	
21	1,2-Dichlorobenzene	1.33358	1.29408	1.29408	0.010	-2.96156	20.00000	Averaged	
24	2,2'-Oxybis(1-chloropropane	1.58359	1.67231	1.67231	0.010	5.60291	20.00000	Averaged	
25	2-Methylphenol	1.20842	1.06522	1.06522	0.010	-11.85079	20.00000	Averaged	
30	N-Nitroso-di-n-propylamine	0.75540	0.69356	0.69356	0.050	-8.18624	20.00000	Averaged	
31	Hexachloroethane	0.52447	0.58537	0.58537	0.010	11.61228	20.00000	Averaged	
32	3&4-Methylphenol	1.27890	1.13734	1.13734	0.010	-11.06895	20.00000	Averaged	
34	Nitrobenzene	0.30836	0.26703	0.26703	0.010	-13.40452	20.00000	Averaged	
36	Isophorone	0.60228	0.50237	0.50237	0.010	-16.58745	20.00000	Averaged	
37	2-Nitrophenol	0.18099	0.17911	0.17911	0.010	-1.03593	20.01000	Averaged	
38	2,4-Dimethylphenol	0.31068	0.27785	0.27785	0.010	-10.56597	20.00000	Averaged	
40	Bis(2-Chloroethoxy)methane	0.41264	0.40502	0.40502	0.010	-1.84580	20.00000	Averaged	
41	2,4-Dichlorophenol	0.26789	0.27143	0.27143	0.010	1.32289	20.01000	Averaged	
42	1,2,4-Trichlorobenzene	0.27846	0.27422	0.27422	0.010	-1.52175	20.00000	Averaged	
45	Naphthalene	0.81057	0.79091	0.79091	0.010	-2.42464	20.00000	Averaged	
46	4-Chloroaniline	0.33296	0.33467	0.33467	0.010	0.51444	20.00000	Averaged	
50	Hexachlorobutadiene	0.13861	0.15249	0.15249	0.010	10.01250	20.01000	Averaged	
55	4-Chloro-3-Methylphenol	0.26674	0.23705	0.23705	0.010	-11.12918	20.01000	Averaged	
56	2-Methylnaphthalene	0.65967	0.56097	0.56097	0.010	-14.96163	20.00000	Averaged	
60	Hexachlorocyclopentadiene	0.26679	0.33251	0.33251	0.050	24.63442	20.00000	Averaged	*
62	2,4,6-Trichlorophenol	0.34293	0.35029	0.35029	0.010	2.14623	20.01000	Averaged	
63	2,4,5-Trichlorophenol	0.34774	0.38397	0.38397	0.010	10.41897	20.00000	Averaged	
65	2-Chloronaphthalene	50.00000	50.80970	1.34071	0.010	1.61940	20.00000	Quadratic	
69	2-Nitroaniline	0.32268	0.26626	0.26626	0.010	-17.48275	20.00000	Averaged	
73	Dimethyl Phthalate	1.11026	1.05012	1.05012	0.010	-5.41675	20.00000	Averaged	
74	Acenaphthylene	1.56838	1.40550	1.40550	0.010	-10.38539	20.00000	Averaged	
75	2,6-Dinitrotoluene	0.24568	0.23792	0.23792	0.010	-3.15937	20.00000	Averaged	
78	3-Nitroaniline	0.30797	0.28839	0.28839	0.010	-6.35755	20.00000	Averaged	
79	Acenaphthene	50.00000	43.82427	0.85688	0.010	-12.35146	20.01000	Quadratic	
80	2,4-Dinitrophenol	50.00000	42.10784	0.13648	0.050	-15.78432	20.00000	Linear	
82	Dibenzofuran	1.34435	1.32157	1.32157	0.010	-1.69486	20.00000	Averaged	
83	2,4-Dinitrotoluene	0.34431	0.33139	0.33139	0.010	-3.75115	20.00000	Averaged	
86	4-Nitrophenol	0.21150	0.19425	0.19425	0.050	-8.15383	20.00000	Averaged	
89	Diethylphthalate	50.00000	38.25178	0.96774	0.010	-23.49644	20.00000	Quadratic	*
90	Fluorene	50.00000	44.43660	0.98075	0.010	-11.12679	20.00000	Quadratic	
91	4-Chlorophenyl-phenylether	0.50690	0.49803	0.49803	0.010	-1.74971	20.00000	Averaged	
95	4-Nitroaniline	0.30030	0.23084	0.23084	0.010	-23.13051	20.00000	Averaged	*

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I **SDG:** SI0230
Lab ID : WG157161-2 **Analytical Date:** 01/19/15 11:31
Lab File ID : U9269.D **Instrument ID:** GCMS-U
Initial Calibration Date(s): 01/12/15 13:06 01/12/15 16:53 **Column ID:**

	Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
96	4,6-Dinitro-2-Methylphenol	0.12769	0.13730	0.13730	0.010	7.53213	20.00000	Averaged
97	N-Nitrosodiphenylamine	0.58711	0.64793	0.64793	0.010	10.35938	20.01000	Averaged
104	4-Bromophenyl-phenylether	0.19451	0.21888	0.21888	0.010	12.52834	20.00000	Averaged
106	Hexachlorobenzene	0.22950	0.23803	0.23803	0.010	3.71954	20.00000	Averaged
111	Pentachlorophenol	0.12663	0.15056	0.15056	0.010	18.89975	20.01000	Averaged
115	Phenanthrene	1.03359	0.98936	0.98936	0.010	-4.27896	20.00000	Averaged
116	Anthracene	1.02925	1.02122	1.02122	0.010	-0.78086	20.00000	Averaged
119	Carbazole	0.91653	0.90595	0.90595	0.010	-1.15410	20.00000	Averaged
121	Di-n-butylphthalate	1.27654	1.20239	1.20239	0.010	-5.80856	20.00000	Averaged
126	Fluoranthene	0.97536	0.94585	0.94585	0.010	-3.02550	20.01000	Averaged
128	Pyrene	1.39248	1.41657	1.41657	0.010	1.73004	20.00000	Averaged
135	Butylbenzylphthalate	0.69176	0.61248	0.61248	0.010	-11.46039	20.00000	Averaged
138	Benzo(a)anthracene	0.96775	0.92381	0.92381	0.010	-4.54029	20.00000	Averaged
140	3,3'-Dichlorobenzidine	0.29328	0.28739	0.28739	0.010	-2.00926	20.00000	Averaged
141	Chrysene	0.87802	0.87899	0.87899	0.010	0.11049	20.00000	Averaged
142	bis(2-Ethylhexyl)phthalate	0.94538	0.84595	0.84595	0.010	-10.51807	20.00000	Averaged
144	Di-n-octylphthalate	2.14123	1.92428	1.92428	0.010	-10.13186	20.01000	Averaged
145	Benzo(b)fluoranthene	1.06586	1.09718	1.09718	0.010	2.93882	20.00000	Averaged
147	Benzo(k)fluoranthene	1.11256	1.13123	1.13123	0.010	1.67803	20.00000	Averaged
148	Benzo(a)pyrene	0.94668	0.92186	0.92186	0.010	-2.62148	20.01000	Averaged
153	Indeno(1,2,3-cd)pyrene	50.00000	42.68540	0.45540	0.010	-14.62919	20.00000	Quadratic
154	Dibenzo(a,h)anthracene	0.57513	0.49573	0.49573	0.010	-13.80560	20.00000	Averaged
155	Benzo(g,h,i)perylene	0.61102	0.52229	0.52229	0.010	-14.52130	20.00000	Averaged
8	2-Fluorophenol	1.30099	1.18412	1.18412	0.010	-8.98313	20.00000	Averaged
14	Phenol-D6	1.40288	1.28399	1.28399	0.010	-8.47411	20.00000	Averaged
33	Nitrobenzene-D5	0.30845	0.26678	0.26678	0.010	-13.51048	20.00000	Averaged
64	2-Fluorobiphenyl	1.00607	1.04848	1.04848	0.010	4.21575	20.00000	Averaged
101	2,4,6-Tribromophenol	0.16934	0.16421	0.16421	0.010	-3.02667	20.00000	Averaged
129	Terphenyl-D14	0.87419	0.90233	0.90233	0.010	3.21948	20.00000	Averaged

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
Lab ID : WG157161-2
Lab File ID : U9269.D
Initial Calibration Date(s): 01/12/15 13:06 01/12/15 16:53

SDG: SI0230
Analytical Date: 01/19/15 11:31
Instrument ID: GCMS-U
Column ID:

*** = Compound out of QC criteria**

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9269.D
Report Date: 20-Jan-2015 10:02

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011915.b\U9269.D
Lab Smp Id: WG157161-2
Inj Date : 19-JAN-2015 11:31 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG157161-2,SI0230
Misc Info : WG157161,WG157161,WG156827-4,SI0230-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011915.b\U8270C70.m
Meth Date : 19-Jan-2015 14:50 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 16:53 Cal File: U9212.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8270bnaDoD.sub
Target Version: 4.12
Processing Host: KATHADIN-50E985

Concentration Formula: Amt * DF * (Vt/Ws*Vi)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$	8 2-Fluorophenol	112	5.590	5.590	(0.678)	660555	50.0000	45.5	
$	14 Phenol-D6	99	7.701	7.701	(0.935)	716270	50.0000	45.8	
	15 Phenol	94	7.722	7.722	(0.937)	797531	50.0000	47.7	
	16 Bis(2-Chloroethyl)ether	93	7.753	7.753	(0.941)	585629	50.0000	48.2	
	17 2-Chlorophenol	128	7.826	7.826	(0.950)	694066	50.0000	49.8	
	18 1,3-Dichlorobenzene	146	8.105	8.105	(0.984)	773063	50.0000	49.8(H)	
*	19 1,4-Dichlorobenzene-D4	152	8.240	8.240	(1.000)	446276	40.0000		
	20 1,4-Dichlorobenzene	146	8.281	8.281	(1.005)	754893	50.0000	49.2	
	21 1,2-Dichlorobenzene	146	8.612	8.612	(1.045)	721898	50.0000	48.5	
	25 2-Methylphenol	108	9.099	9.099	(1.104)	594225	50.0000	44.1(H)	
	24 2,2'-Oxybis(1-chloropropane)	45	9.016	9.016	(1.094)	932891	50.0000	52.8	
	32 3&4-Methylphenol	108	9.471	9.471	(1.149)	634457	50.0000	44.5	
	30 N-Nitroso-di-n-propylamine	70	9.326	9.326	(1.132)	386898	50.0000	45.9	
	31 Hexachloroethane	117	9.378	9.378	(1.138)	326545	50.0000	55.8	
$	33 Nitrobenzene-D5	82	9.544	9.544	(0.851)	569193	50.0000	43.2	
	34 Nitrobenzene	77	9.585	9.585	(0.855)	569723	50.0000	43.3	
	36 Isophorone	82	10.206	10.206	(0.910)	1071854	50.0000	41.7	
	37 2-Nitrophenol	139	10.341	10.341	(0.922)	382151	50.0000	49.5	
	38 2,4-Dimethylphenol	107	10.662	10.662	(0.951)	592824	50.0000	44.7	
	40 Bis(2-Chloroethoxy)methane	93	10.827	10.827	(0.966)	864148	50.0000	49.1	

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9269.D
Report Date: 20-Jan-2015 10:02

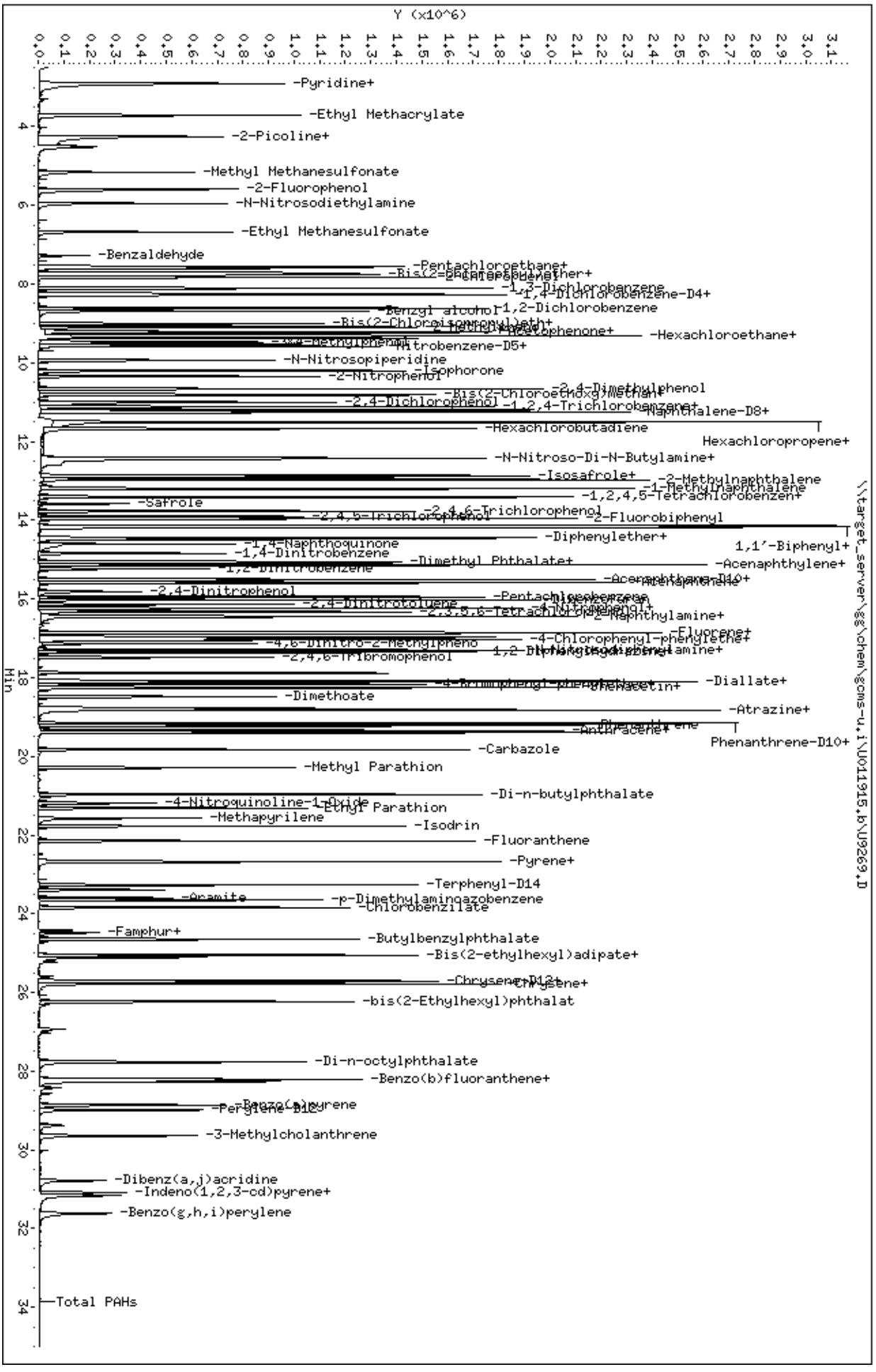
		QUANT SIG					AMOUNTS		
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	41 2,4-Dichlorophenol	162	11.003	11.003	(0.982)	579125	50.0000	50.7	
	42 1,2,4-Trichlorobenzene	180	11.117	11.117	(0.992)	585071	50.0000	49.2	
*	44 Naphthalene-D8	136	11.210	11.210	(1.000)	1706859	40.0000		
	45 Naphthalene	128	11.251	11.251	(1.004)	1687471	50.0000	48.8	
	46 4-Chloroaniline	127	11.500	11.500	(1.026)	714043	50.0000	50.2	
	50 Hexachlorobutadiene	225	11.676	11.676	(1.042)	325351	50.0000	55.0	
	55 4-Chloro-3-Methylphenol	107	12.897	12.897	(1.150)	505774	50.0000	44.4	
	56 2-Methylnaphthalene	142	12.970	12.970	(1.157)	1196879	50.0000	42.5(H)	
	60 Hexachlorocyclopentadiene	237	13.425	13.425	(0.866)	370209	50.0000	62.3	
	62 2,4,6-Trichlorophenol	196	13.777	13.777	(0.889)	390004	50.0000	51.1(H)	
	63 2,4,5-Trichlorophenol	196	13.901	13.901	(0.897)	427506	50.0000	55.2	
$	64 2-Fluorobiphenyl	172	13.953	13.953	(0.900)	1167363	50.0000	52.1	
	65 2-Chloronaphthalene	162	14.139	14.139	(0.912)	1492728	50.0000	50.8(H)	
	69 2-Nitroaniline	65	14.501	14.501	(0.935)	296453	50.0000	41.2	
	73 Dimethyl Phthalate	163	15.081	15.081	(0.973)	1169187	50.0000	47.3	
	74 Acenaphthylene	152	15.133	15.133	(0.976)	1564859	50.0000	44.8	
	75 2,6-Dinitrotoluene	165	15.143	15.143	(0.977)	264899	50.0000	48.4	
*	77 Acenaphthene-D10	164	15.505	15.505	(1.000)	890706	40.0000		
	78 3-Nitroaniline	138	15.536	15.536	(1.002)	321085	50.0000	46.8	
	79 Acenaphthene	153	15.588	15.588	(1.005)	954035	50.0000	43.8	
	80 2,4-Dinitrophenol	184	15.816	15.816	(1.020)	151957	50.0000	42.1	
	86 4-Nitrophenol	139	16.261	16.261	(1.049)	216280	50.0000	45.9	
	82 Dibenzofuran	168	16.023	16.023	(1.033)	1471408	50.0000	49.2	
	83 2,4-Dinitrotoluene	165	16.147	16.147	(1.041)	368965	50.0000	48.1	
	89 Diethylphthalate	149	16.851	16.851	(1.087)	1077464	50.0000	38.2	
	91 4-Chlorophenyl-phenylether	204	16.975	16.975	(1.095)	554500	50.0000	49.1	
	90 Fluorene	166	16.872	16.872	(1.088)	1091947	50.0000	44.4	
	95 4-Nitroaniline	138	17.068	17.068	(1.101)	257008	50.0000	38.4	
	96 4,6-Dinitro-2-Methylphenol	198	17.141	17.141	(0.895)	201124	50.0000	53.8	
	97 N-Nitrosodiphenylamine	169	17.306	17.306	(0.903)	949097	50.0000	55.2	
$	101 2,4,6-Tribromophenol	330	17.493	17.493	(1.128)	182830	50.0000	48.5	
	104 4-Bromophenyl-phenylether	248	18.165	18.165	(0.948)	320626	50.0000	56.3	
	106 Hexachlorobenzene	284	18.248	18.248	(0.952)	348674	50.0000	51.8	
	111 Pentachlorophenol	266	18.817	18.817	(0.982)	220541	50.0000	59.4	
*	114 Phenanthrene-D10	188	19.159	19.159	(1.000)	1171855	40.0000		
	115 Phenanthrene	178	19.221	19.221	(1.003)	1449233	50.0000	47.9(H)	
	116 Anthracene	178	19.345	19.345	(1.010)	1495899	50.0000	49.6	
	119 Carbazole	167	19.832	19.832	(1.035)	1327051	50.0000	49.4	
	121 Di-n-butylphthalate	149	20.970	20.970	(1.095)	1761281	50.0000	47.1	
	126 Fluoranthene	202	22.161	22.161	(1.157)	1385495	50.0000	48.5	
	128 Pyrene	202	22.678	22.678	(0.882)	1430449	50.0000	50.9	
$	129 Terphenyl-D14	244	23.268	23.268	(0.905)	911169	50.0000	51.6	
	135 Butylbenzylphthalate	149	24.645	24.645	(0.958)	618481	50.0000	44.3	
*	139 Chrysene-D12	240	25.721	25.721	(1.000)	807837	40.0000		
	140 3,3'-Dichlorobenzidine	252	25.773	25.773	(1.002)	290205	50.0000	49.0	
	138 Benzo(a)anthracene	228	25.700	25.700	(0.999)	932862	50.0000	47.7(H)	
	141 Chrysene	228	25.783	25.783	(1.002)	887597	50.0000	50.0	
	142 bis(2-Ethylhexyl)phthalate	149	26.238	26.238	(1.020)	854233	50.0000	44.7	
	144 Di-n-octylphthalate	149	27.760	27.760	(0.958)	1282807	50.0000	44.9	
	145 Benzo(b)fluoranthene	252	28.205	28.205	(0.973)	731429	50.0000	51.5	
	147 Benzo(k)fluoranthene	252	28.257	28.257	(0.975)	754123	50.0000	50.8(H)	
	148 Benzo(a)pyrene	252	28.867	28.867	(0.996)	614551	50.0000	48.7	
*	150 Perylene-D12	264	28.981	28.981	(1.000)	533314	40.0000		
	153 Indeno(1,2,3-cd)pyrene	276	31.082	31.082	(1.072)	303586	50.0000	42.7	

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9269.D
Report Date: 20-Jan-2015 10:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
154 Dibenzo(a,h)anthracene	278	31.165	31.165	(1.075)	330476	50.0000	43.1	
155 Benzo(g,h,i)perylene	276	31.610	31.610	(1.091)	348181	50.0000	42.7	

QC Flag Legend

H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U011915,b\U9269,D
Date : 19-JAN-2015 11:31
Client ID:
Sample Info: WG157161-2,SIO230
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u,i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U011915,b\U9269,D
Y (x10^6)
Min
-Pyridine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Pentachloroethane+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-Benzyl alcohol
-1,2-Dichlorobenzene
-Hexachloroethane+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene-D8+
-Hexachlorobutadiene
Hexachloropropene+
-N-Nitroso-Di-N-Butylamine+
-Isosafrole+
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-Safrole
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol
-2-Fluorobiphenyl
-Diphenylether+
1,1'-Biphenyl+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-Acenaphthylene+
-1,2-Dinitrobenzene
-Acenaphthene-D10+
-2,4-Dinitrophenol
-Pentachlorobenzene
-2,4-Dinitrotoluene
-2,3,5,6-Tetrachloro-2-Naphthylamine+
-4-Chlorophenyl-phenylether+
-4,6-Dinitro-2-Methylpheno
-2,4,6-Tribromophenol
-Diallate+
-Dimethoate
-Atrazine+
-Anthracene+
Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide
-Ethyl Parathion
-Methapyrilene
-Isodrin
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-Famphur+
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate+
-Chrysene-D12
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\UD310.D

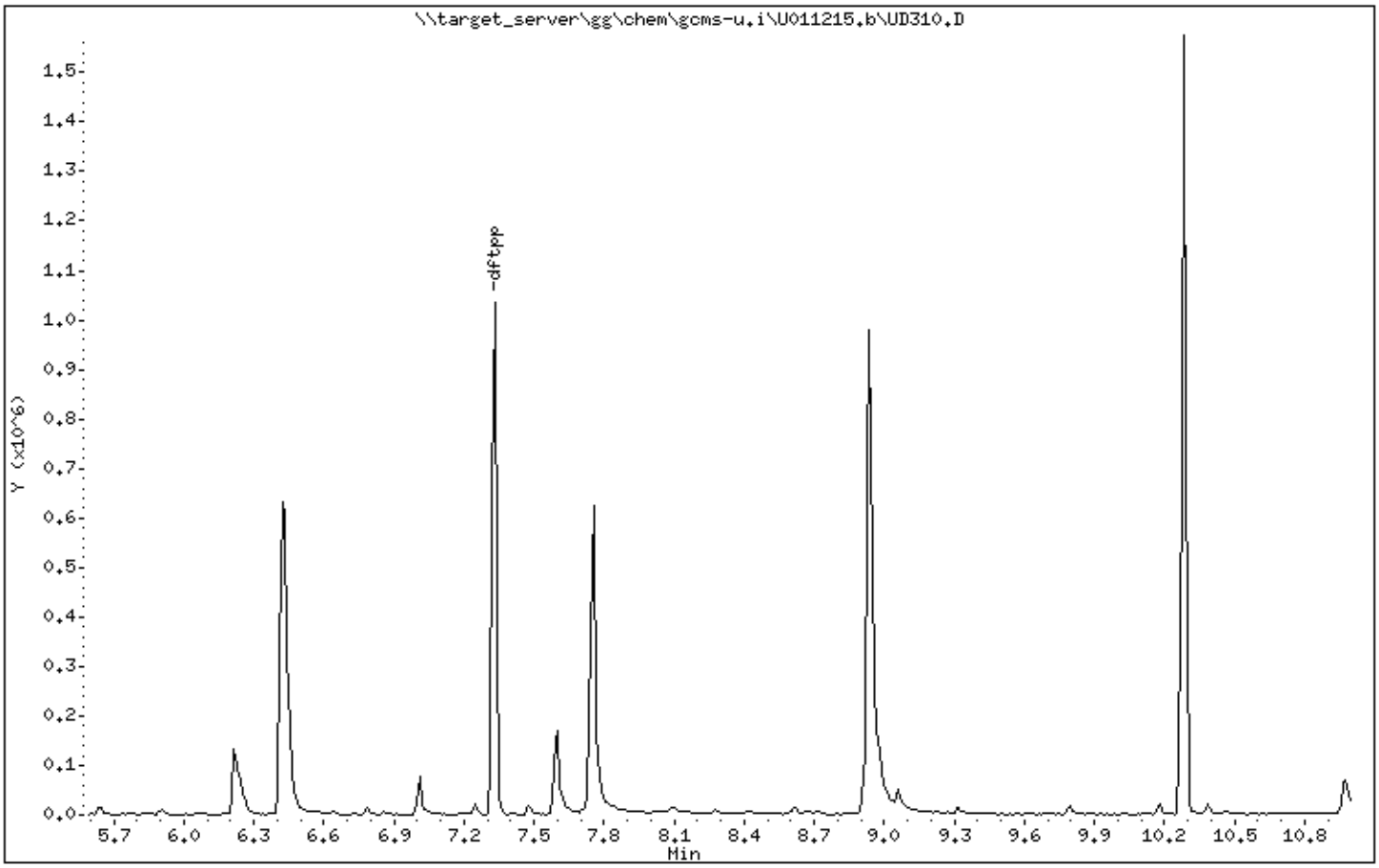
Date : 12-JAN-2015 12:47

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG156827-1,SI0230

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\UD310.D

Date : 12-JAN-2015 12:47

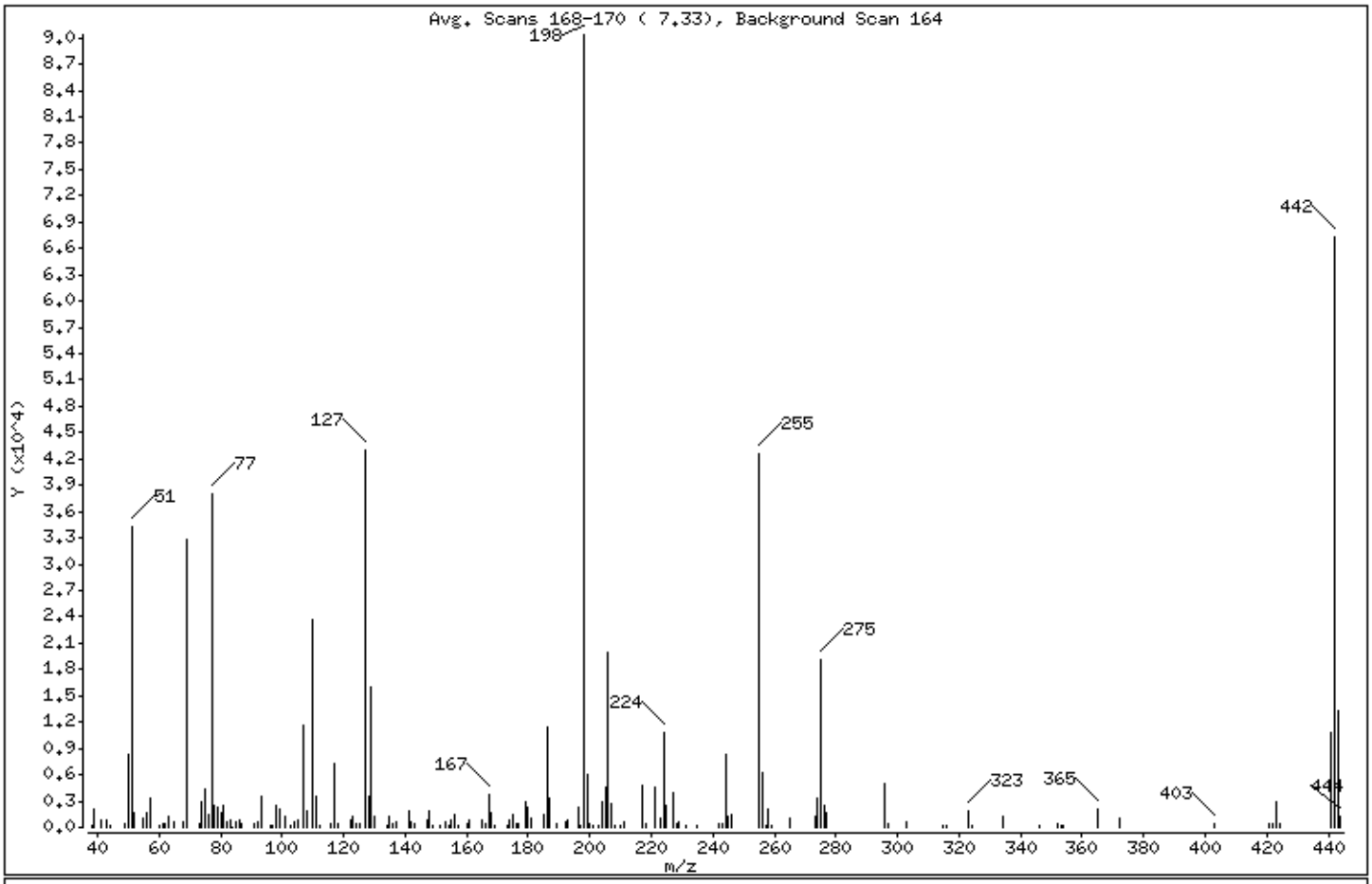
Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG156827-1,SI0230

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.00
68	Less than 2.00% of mass 69	0.64 (1.75)
69	Less than 100.00% of mass 198	36.40
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.62
197	Less than 1.00% of mass 198	0.20
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	21.08
365	1.00 - 100.00% of mass 198	2.32
441	0.01 - 100.00% of mass 443	11.98 (81.95)
442	40.00 - 100.00% of mass 198	74.49
443	17.00 - 23.00% of mass 442	14.62 (19.62)

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\UD310.D

Date : 12-JAN-2015 12:47

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG156827-1,SI0230

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: UD310.D
Spectrum: Avg. Scans 168-170 (7.33), Background Scan 164
Location of Maximum: 198.00
Number of points: 162

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	198	101.00	1337	168.00	1734	242.00	327
39.00	2133	103.00	273	169.00	173	243.00	463
41.00	836	104.00	677	173.00	184	244.00	8300
43.00	916	105.00	728	174.00	770	245.00	1198
44.00	178	107.00	11716	175.00	1493	246.00	1478
49.00	409	108.00	1885	176.00	446	255.00	42640
50.00	8255	110.00	23632	177.00	512	256.00	6266
51.00	34328	111.00	3452	179.00	2927	257.00	279
52.00	1645	112.00	252	180.00	2216	258.00	2165
55.00	1001	116.00	444	181.00	1014	259.00	214
56.00	1597	117.00	7319	185.00	1441	265.00	960
57.00	3348	118.00	486	186.00	11343	273.00	1341
60.00	204	122.00	735	187.00	3279	274.00	3301
61.00	509	123.00	1205	189.00	483	275.00	19040
62.00	512	124.00	479	192.00	674	276.00	2528
63.00	1323	125.00	451	193.00	796	277.00	1623
65.00	646	127.00	43016	196.00	2331	296.00	5059
68.00	576	128.00	3447	197.00	178	297.00	460
69.00	32880	129.00	16036	198.00	90336	303.00	524
73.00	481	130.00	1329	199.00	5924	315.00	296
74.00	2909	134.00	229	200.00	428	316.00	174
75.00	4426	135.00	1224	201.00	222	323.00	1905
76.00	1417	136.00	491	203.00	231	324.00	216
77.00	38016	137.00	547	204.00	2819	334.00	1212
78.00	2562	141.00	1864	205.00	4593	346.00	280
79.00	2182	142.00	580	206.00	19984	352.00	426
80.00	1573	143.00	432	207.00	2750	353.00	183
81.00	2559	147.00	850	208.00	254	354.00	250
82.00	673	148.00	1893	210.00	206	365.00	2092
83.00	805	149.00	219	211.00	713	372.00	1001
84.00	57	151.00	203	217.00	4746	403.00	440
85.00	545	153.00	522	218.00	503	421.00	512
86.00	759	154.00	242	221.00	4546	422.00	392
87.00	380	155.00	842	223.00	1009	423.00	2910
91.00	451	156.00	1532	224.00	10848	424.00	448

Data File: \\target_server\gg\chem\gcms-u.i\U011215.b\UD310.D

Date : 12-JAN-2015 12:47

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG156827-1,SI0230

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

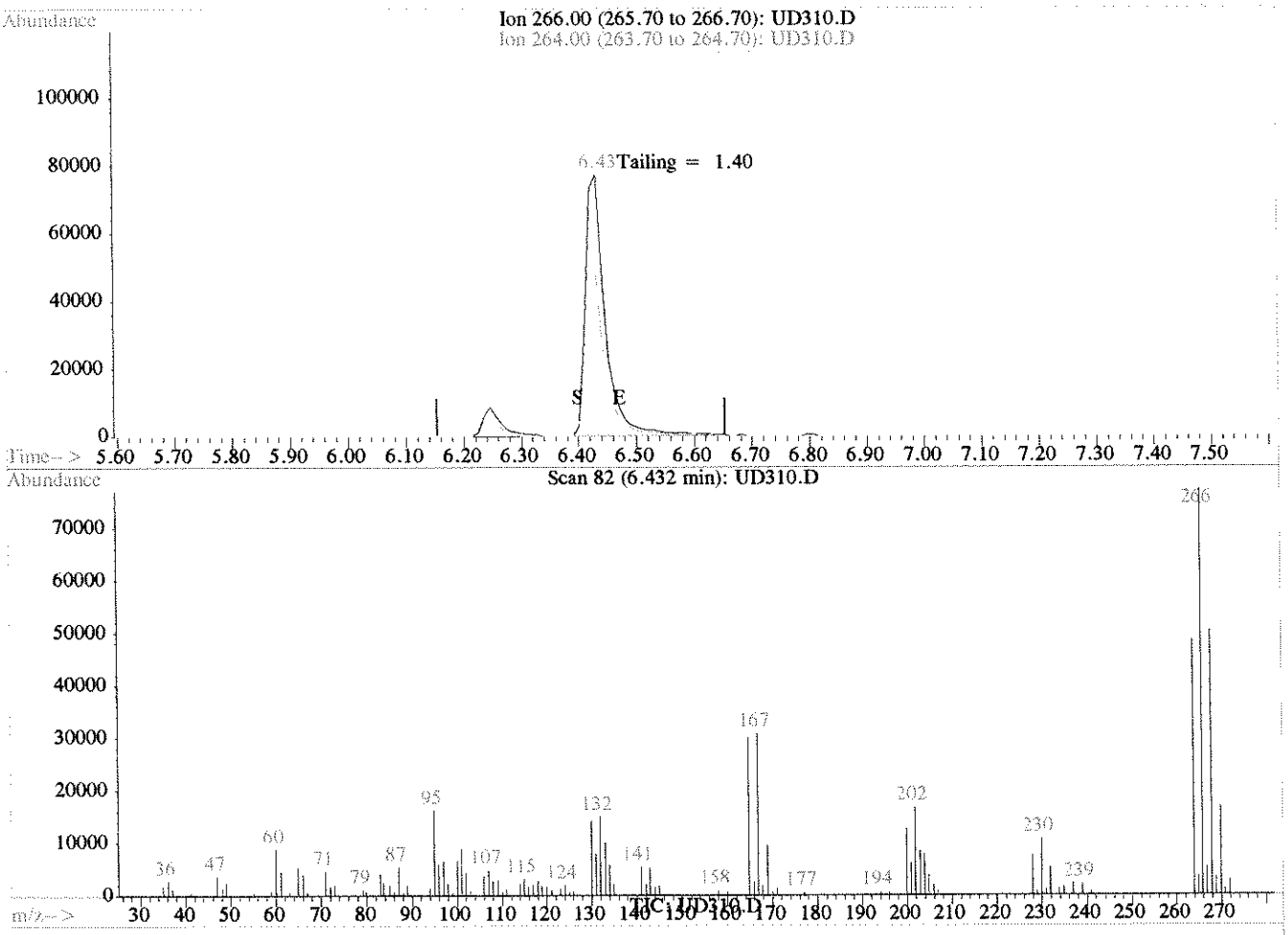
Data File: UD310.D
Spectrum: Avg. Scans 168-170 (7.33), Background Scan 164
Location of Maximum: 198.00
Number of points: 162

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	615	157.00	201	225.00	2507	441.00	10822
93.00	3561	160.00	462	227.00	3989	442.00	67288
96.00	176	161.00	812	228.00	463	443.00	13205
97.00	193	165.00	763	229.00	637	444.00	1299
98.00	2526	166.00	511	231.00	231		
99.00	2143	167.00	3780	235.00	169		

Quantitation Report

Data File : C:\HPCHEM\1\DATA\U011215\UD310.D Vial: 1
Acq On : 12 Jan 2015 12:47 pm Operator: JCG
Sample : WG156827-1 Inst : GC/MS Ins
Misc : WG156827,WG156827,WG156827-4 Multiplr: 1.00
MS Integration Params: SEP Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\TUNETAIL.M (RTE Integrator)
Title : Katahdin 8270C Water Calibration
Last Update : Wed Jan 07 10:41:02 2015
Response via : Multiple Level Calibration



(1) Pentachlorophenol (CM)

6.43min 82.77ug/L

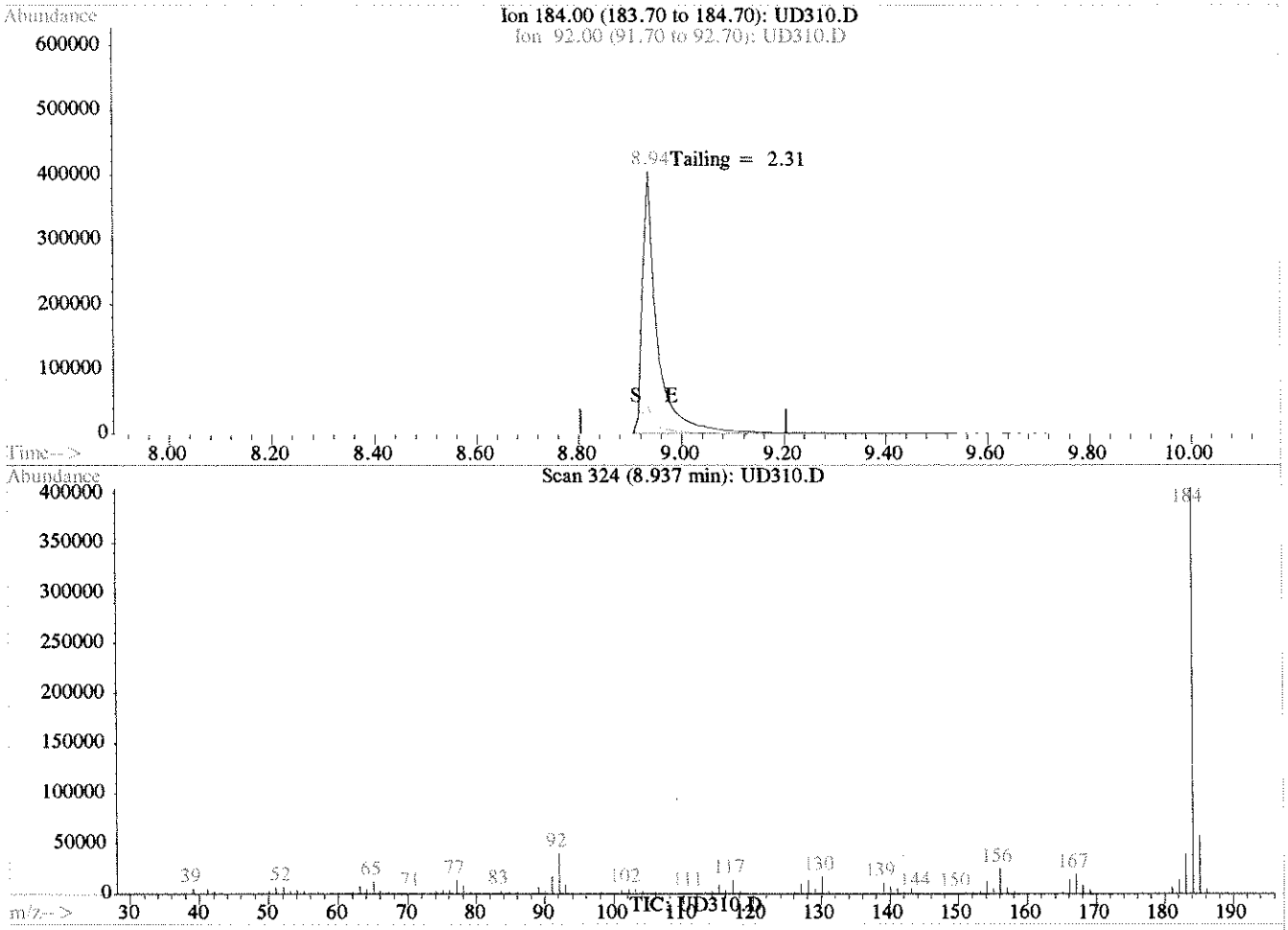
response 183004

Ion	Exp%	Act%
266.00	100	100
264.00	62.00	64.13
268.00	63.50	64.05
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\U011215\UD310.D Vial: 1
Acq On : 12 Jan 2015 12:47 pm Operator: JCG
Sample : WG156827-1 Inst : GC/MS Ins
Misc : WG156827,WG156827,WG156827-4 Multiplr: 1.00
MS Integration Params: SEP01 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\TUNETAIL.M (RTE Integrator)
Title : Katahdin 8270C Water Calibration
Last Update : Wed Jan 07 10:41:02 2015
Response via : Multiple Level Calibration



(2) Benzidine (T)

8.94min 181.11ug/L

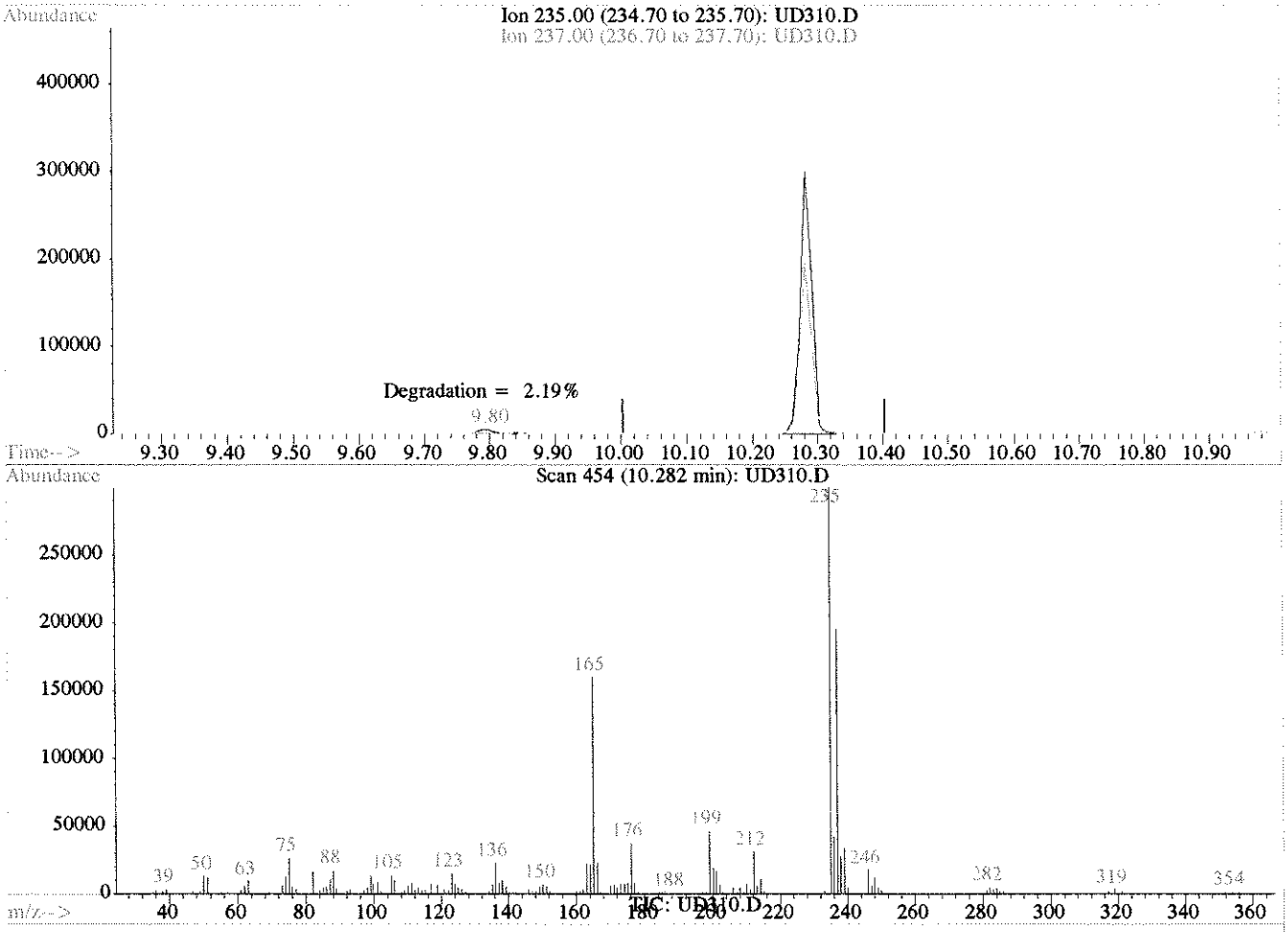
response 812495

Ion	Exp%	Act%
184.00	100	100
92.00	12.20	10.22
185.00	14.40	14.59
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\U011215\UD310.D Vial: 1
Acq On : 12 Jan 2015 12:47 pm Operator: JCG
Sample : WG156827-1 Inst : GC/MS Ins
Misc : WG156827,WG156827,WG156827-4 Multiplr: 1.00
MS Integration Params: SEP01 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\TUNETAIL.M (RTE Integrator)
Title : Katahdin 8270C Water Calibration
Last Update : Wed Jan 07 10:41:02 2015
Response via : Multiple Level Calibration



(3) 4,4'-DDT (T)

10.28min 83.67ug/L

response 375367

Ion	Exp%	Act%
235.00	100	100
237.00	50.00	64.84
165.00	50.00	52.88
0.00	0.00	0.00

UD310.D TUNETAIL.M Mon Jan 12 13:02:44 2015

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\UD313.D

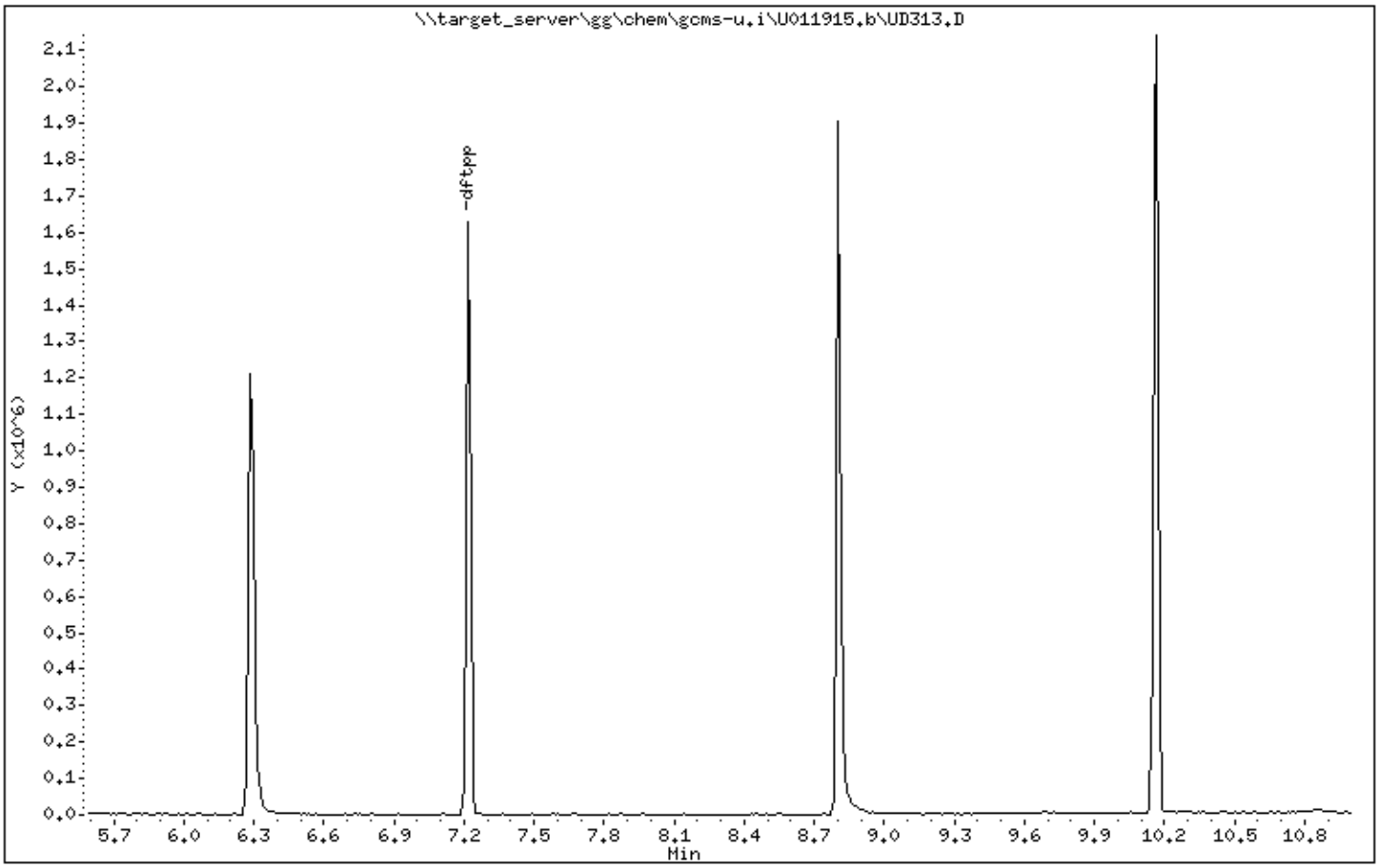
Date : 19-JAN-2015 11:12

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG157161-1,SI0230

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\UD313.D

Date : 19-JAN-2015 11:12

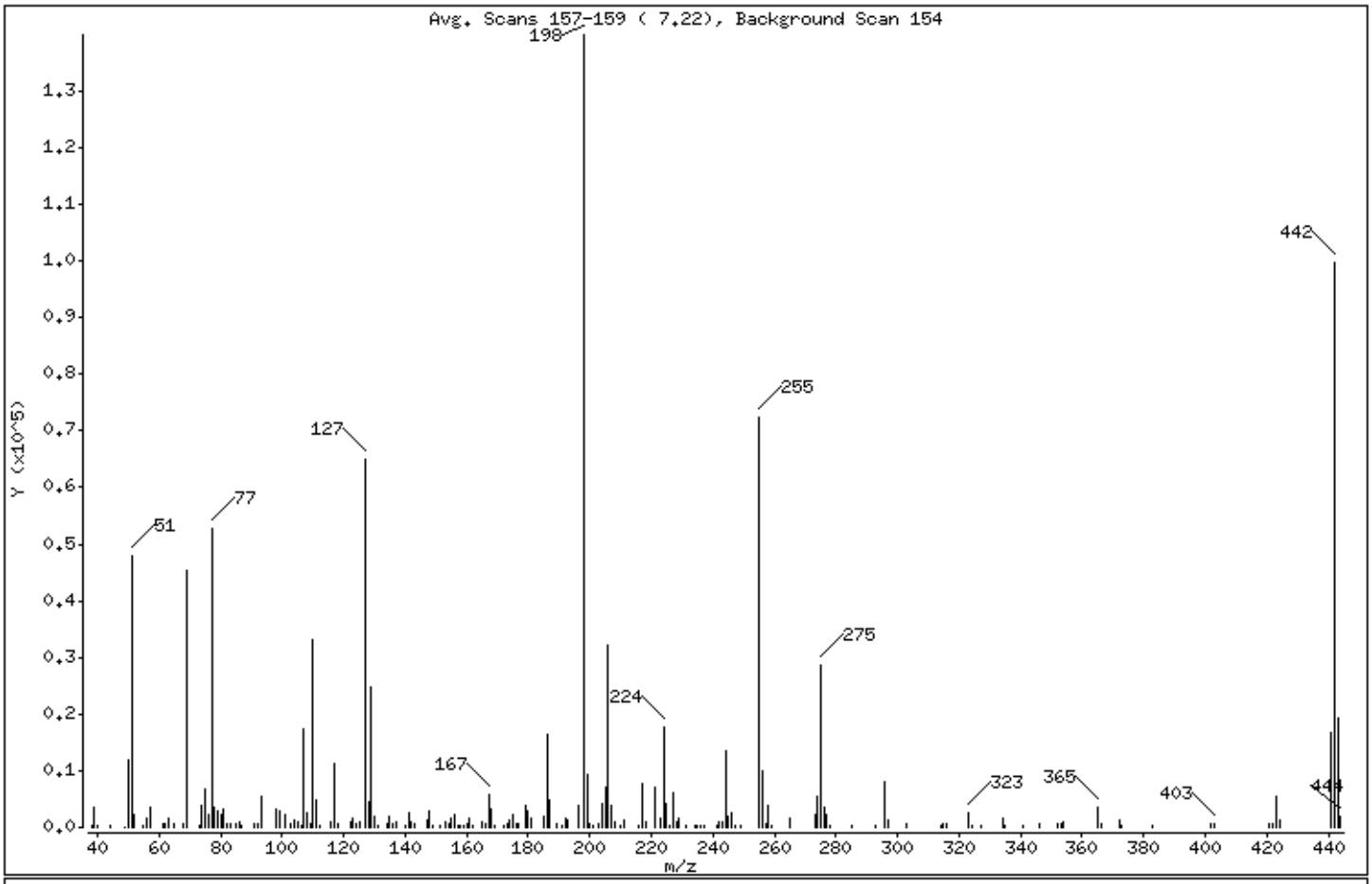
Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG157161-1,SI0230

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.26
68	Less than 2.00% of mass 69	0.45 (1.38)
69	Less than 100.00% of mass 198	32.33
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	46.48
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.57
275	10.00 - 30.00% of mass 198	20.40
365	1.00 - 100.00% of mass 198	2.60
441	0.01 - 100.00% of mass 443	12.00 (87.35)
442	40.00 - 100.00% of mass 198	71.30
443	17.00 - 23.00% of mass 442	13.74 (19.27)

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\UD313.D

Date : 19-JAN-2015 11:12

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG157161-1,SI0230

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: UD313.D
Spectrum: Avg. Scans 157-159 (7.22), Background Scan 154
Location of Maximum: 198.00
Number of points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	390	116.00	856	181.00	1495	257.00	714
39.00	3562	117.00	11163	185.00	2020	258.00	3732
40.00	359	118.00	693	186.00	16552	259.00	454
44.00	223	122.00	839	187.00	4823	265.00	1500
49.00	41	123.00	1573	189.00	585	273.00	2137
50.00	12058	124.00	554	191.00	209	274.00	5404
51.00	47928	125.00	815	192.00	1508	275.00	28544
52.00	2227	127.00	65032	193.00	1442	276.00	3528
55.00	219	128.00	4586	196.00	3936	277.00	2344
56.00	1641	129.00	24632	198.00	139904	278.00	212
57.00	3621	130.00	1842	199.00	9196	285.00	240
61.00	541	131.00	230	200.00	669	293.00	478
62.00	494	134.00	789	201.00	286	296.00	8060
63.00	1627	135.00	1953	203.00	545	297.00	1242
65.00	782	136.00	680	204.00	4254	303.00	801
68.00	624	137.00	940	205.00	7040	314.00	280
69.00	45224	140.00	179	206.00	32104	315.00	707
73.00	200	141.00	2667	207.00	3966	316.00	585
74.00	3860	142.00	939	208.00	1076	323.00	2682
75.00	6614	143.00	561	210.00	288	324.00	230
76.00	2100	147.00	1303	211.00	1186	327.00	475
77.00	52600	148.00	2799	216.00	300	334.00	1580
78.00	3443	149.00	469	217.00	7674	335.00	415
79.00	2987	151.00	234	218.00	976	341.00	194
80.00	2344	153.00	919	221.00	7058	346.00	573
81.00	3367	154.00	509	223.00	1733	352.00	571
82.00	627	155.00	1492	224.00	17728	353.00	516
83.00	604	156.00	2228	225.00	4188	354.00	829
85.00	576	157.00	255	226.00	167	365.00	3632
86.00	1120	158.00	249	227.00	5978	366.00	509
87.00	399	159.00	259	228.00	1021	372.00	1369
91.00	782	160.00	618	229.00	1547	373.00	236
92.00	697	161.00	1593	231.00	465	383.00	253
93.00	5493	162.00	199	234.00	206	402.00	689
98.00	3165	165.00	1119	235.00	265	403.00	714

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\UD313.D

Date : 19-JAN-2015 11:12

Client ID: DFTPP02 Instrument: gcms-u.i

Sample Info: WG157161-1,SI0230

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

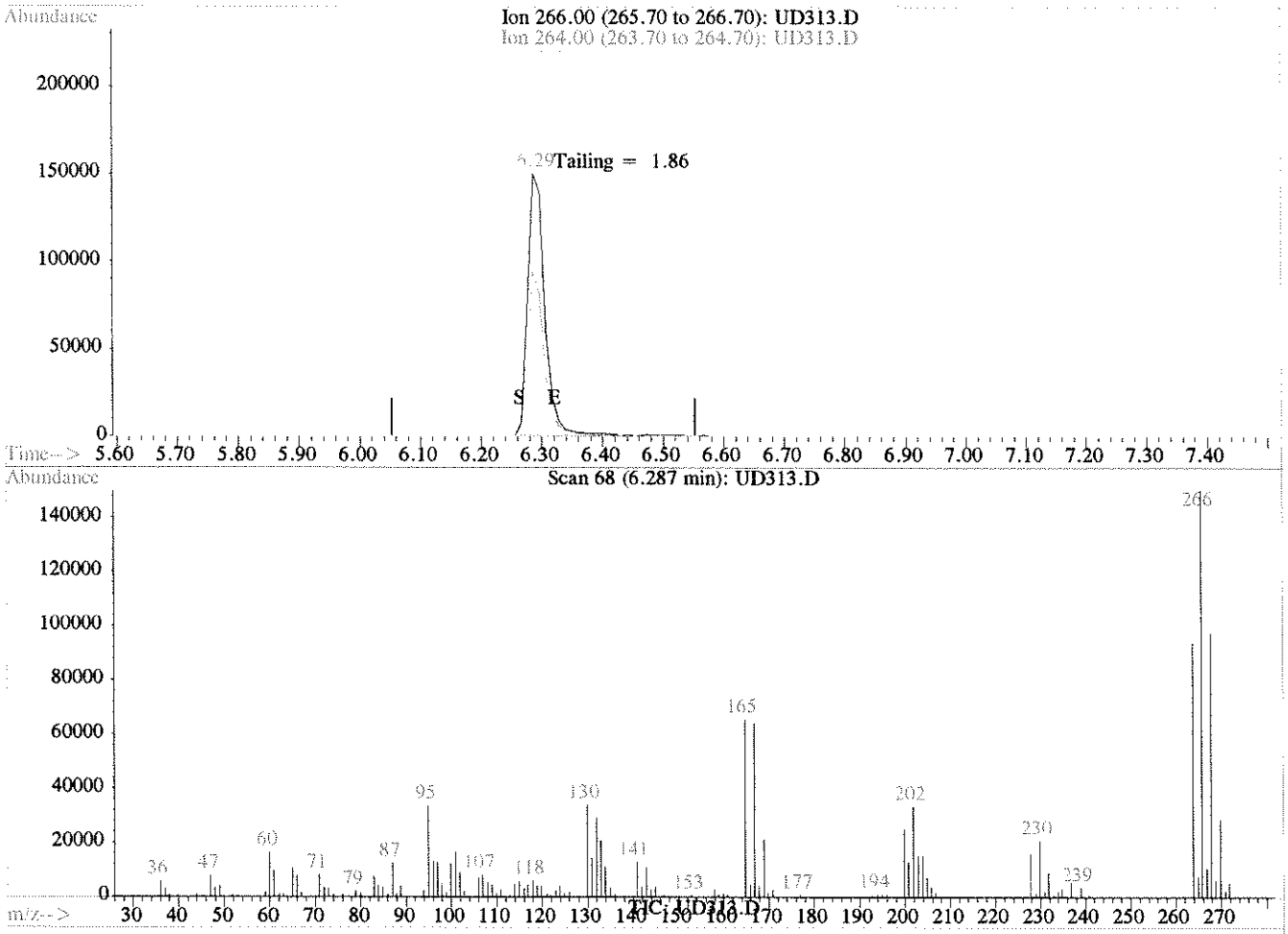
Data File: UD313.D
Spectrum: Avg. Scans 157-159 (7.22), Background Scan 154
Location of Maximum: 198.00
Number of points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
99.00	2994	166.00	603	236.00	177	421.00	603
101.00	2095	167.00	5837	237.00	221	422.00	635
103.00	571	168.00	3321	241.00	375	423.00	5540
104.00	1164	169.00	309	242.00	1014	424.00	1163
105.00	1057	172.00	285	243.00	881	441.00	16792
106.00	238	173.00	613	244.00	13410	442.00	99752
107.00	17312	174.00	1173	245.00	1900	443.00	19224
108.00	2605	175.00	2351	246.00	2466	444.00	2082
109.00	486	176.00	605	247.00	335		
110.00	33184	177.00	649	249.00	248		
111.00	4841	179.00	3813	255.00	72400		
112.00	268	180.00	3022	256.00	10117		

Quantitation Report

Data File : C:\HPCHEM\1\DATA\U011915\UD313.D Vial: 1
Acq On : 19 Jan 2015 11:12 am Operator: JCG
Sample : WG157161-1 Inst : GC/MS Ins
Misc : WG157161,WG157161,WG156827-4 Multiplr: 1.00
MS Integration Params: 29EP05 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\TUNETAIL.M (RTE Integrator)
Title : Katahdin 8270C Water Calibration
Last Update : Mon Jan 19 10:49:35 2015
Response via : Multiple Level Calibration



(1) Pentachlorophenol (CM)

6.29min 135.70ug/L

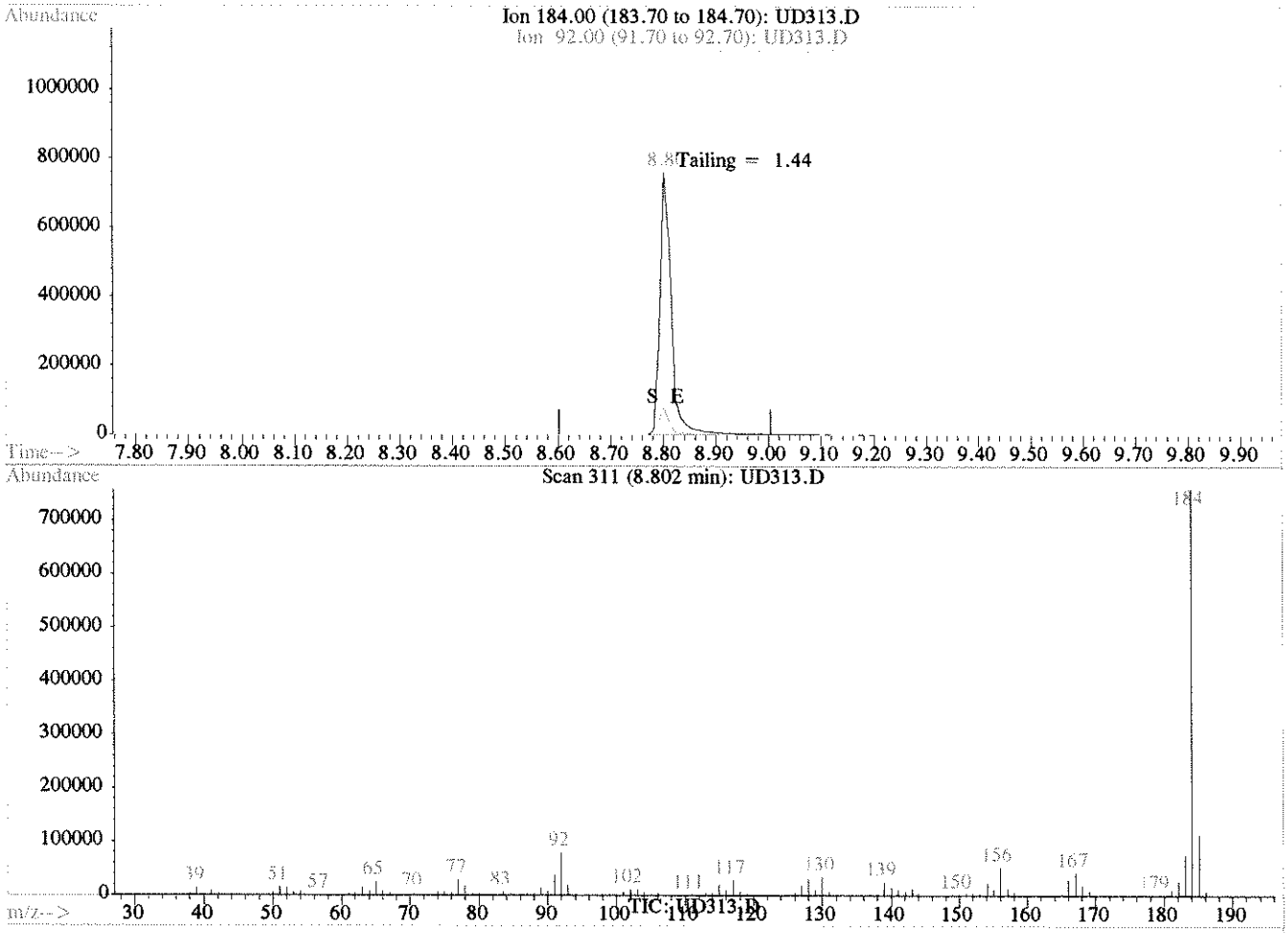
response 300032

Ion	Exp%	Act%
266.00	100	100
264.00	62.00	59.95
268.00	63.50	63.23
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\U011915\UD313.D Vial: 1
Acq On : 19 Jan 2015 11:12 am Operator: JCG
Sample : WG157161-1 Inst : GC/MS Ins
Misc : WG157161,WG157161,WG156827-4 Multiplr: 1.00
MS Integration Params: 29EP05 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\TUNETAIL.M (RTE Integrator)
Title : Katahdin 8270C Water Calibration
Last Update : Mon Jan 19 10:49:35 2015
Response via : Multiple Level Calibration



(2) Benzidine (T)

8.80min 257.37ug/L

response 1154604

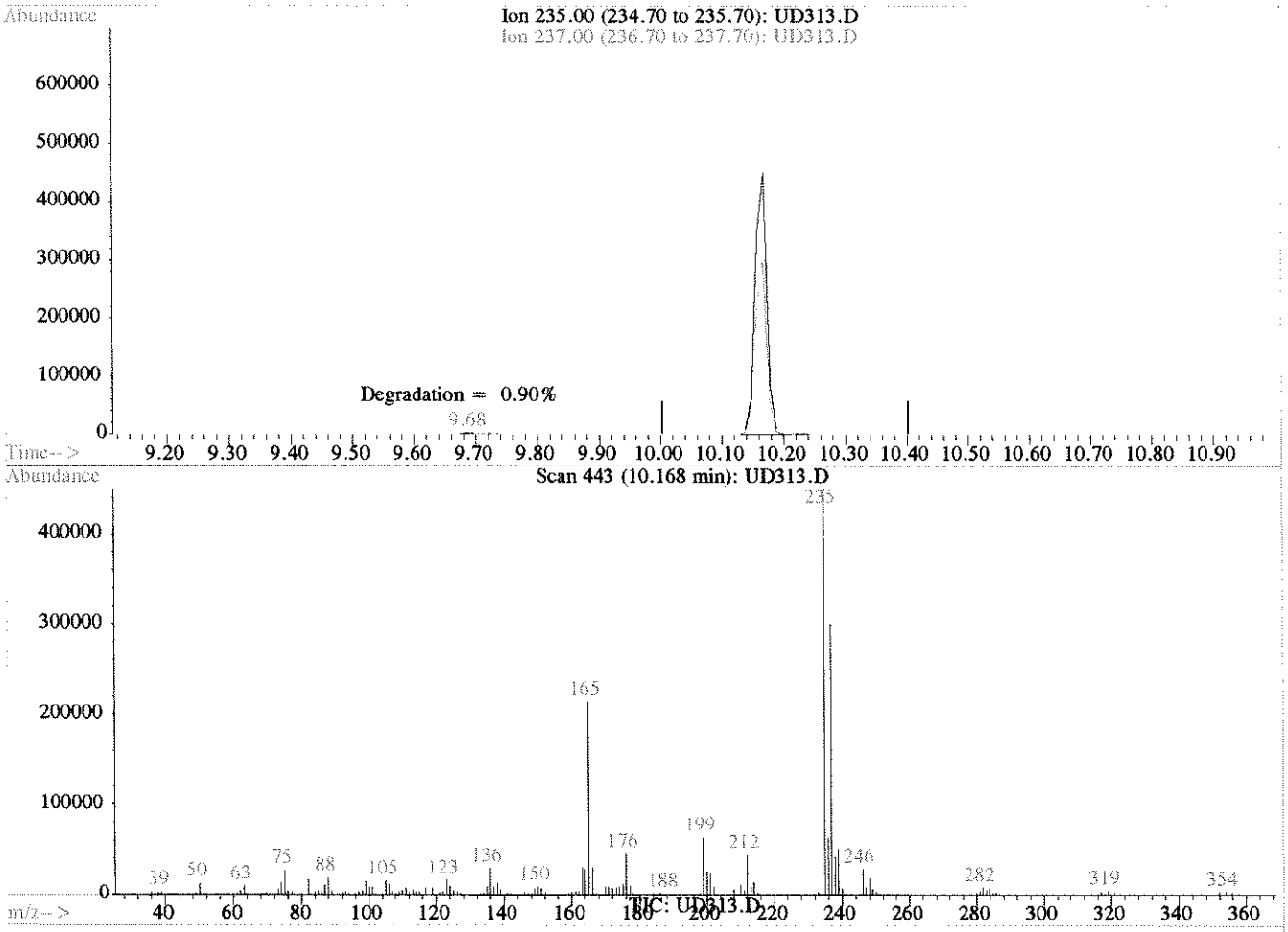
Ion	Exp%	Act%
184.00	100	100
92.00	12.20	9.51
185.00	14.40	14.55
0.00	0.00	0.00

UD313.D TUNETAIL.M Mon Jan 19 11:30:11 2015

Quantitation Report

Data File : C:\HPCHEM\1\DATA\U011915\UD313.D Vial: 1
Acq On : 19 Jan 2015 11:12 am Operator: JCG
Sample : WG157161-1 Inst : GC/MS Ins
Misc : WG157161,WG157161,WG156827-4 Multiplr: 1.00
MS Integration Params: 29EP05 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\TUNETAIL.M (RTE Integrator)
Title : Katahdin 8270C Water Calibration
Last Update : Mon Jan 19 10:49:35 2015
Response via : Multiple Level Calibration



(3) 4,4'-DDT (T)

10.17min 132.18ug/L

response 592966

Ion	Exp%	Act%
235.00	100	100
237.00	50.00	65.47
165.00	50.00	51.90
0.00	0.00	0.00

Raw QC Data Section

Report of Analytical Results

Client:
Lab ID: WG156989-1
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: U9270.D

Sample Date:
Received Date:
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG156989

Analysis Date: 19-JAN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA
Report Date: 20-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	250	ug/Kgdrywt	1	330	330	160	250
Bis(2-Chloroethyl)Ether	U	250	ug/Kgdrywt	1	330	330	81.	250
2-Chlorophenol	U	250	ug/Kgdrywt	1	330	330	160	250
1,3-Dichlorobenzene	U	250	ug/Kgdrywt	1	330	330	78.	250
1,4-Dichlorobenzene	U	250	ug/Kgdrywt	1	330	330	86.	250
1,2-Dichlorobenzene	U	250	ug/Kgdrywt	1	330	330	88.	250
2-Methylphenol	U	250	ug/Kgdrywt	1	330	330	200	250
2,2'-Oxybis(1-Chloropropane)	U	250	ug/Kgdrywt	1	330	330	89.	250
3&4-Methylphenol	U	250	ug/Kgdrywt	1	330	330	190	250
N-Nitroso-Di-N-Propylamine	U	250	ug/Kgdrywt	1	330	330	83.	250
Hexachloroethane	U	250	ug/Kgdrywt	1	330	330	96.	250
Nitrobenzene	U	250	ug/Kgdrywt	1	330	330	91.	250
Isophorone	U	250	ug/Kgdrywt	1	330	330	75.	250
2-Nitrophenol	U	250	ug/Kgdrywt	1	330	330	170	250
2,4-Dimethylphenol	U	250	ug/Kgdrywt	1	330	330	160	250
Bis(2-Chloroethoxy)Methane	U	250	ug/Kgdrywt	1	330	330	96.	250
2,4-Dichlorophenol	U	250	ug/Kgdrywt	1	330	330	150	250
1,2,4-Trichlorobenzene	U	250	ug/Kgdrywt	1	330	330	81.	250
Naphthalene	U	250	ug/Kgdrywt	1	330	330	87.	250
4-Chloroaniline	U	250	ug/Kgdrywt	1	330	330	120	250
Hexachlorobutadiene	U	250	ug/Kgdrywt	1	330	330	83.	250
4-Chloro-3-Methylphenol	U	250	ug/Kgdrywt	1	330	330	170	250
2-Methylnaphthalene	U	250	ug/Kgdrywt	1	330	330	92.	250
Hexachlorocyclopentadiene	U	250	ug/Kgdrywt	1	330	330	82.	250
2,4,6-Trichlorophenol	U	250	ug/Kgdrywt	1	330	330	160	250
2,4,5-Trichlorophenol	U	620	ug/Kgdrywt	1	820	820	160	620
2-Chloronaphthalene	U	250	ug/Kgdrywt	1	330	330	87.	250
2-Nitroaniline	U	620	ug/Kgdrywt	1	820	820	75.	620
Dimethyl Phthalate	U	250	ug/Kgdrywt	1	330	330	78.	250
Acenaphthylene	U	250	ug/Kgdrywt	1	330	330	70.	250
2,6-Dinitrotoluene	U	250	ug/Kgdrywt	1	330	330	79.	250
3-Nitroaniline	U	620	ug/Kgdrywt	1	820	820	94.	620
Acenaphthene	U	250	ug/Kgdrywt	1	330	330	65.	250
2,4-Dinitrophenol	U	620	ug/Kgdrywt	1	820	820	380	620

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Report of Analytical Results

Client:
Lab ID: WG156989-1
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: U9270.D

Sample Date:
Received Date:
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG156989

Analysis Date: 19-JAN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA
Report Date: 20-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
4-Nitrophenol	U	620	ug/Kgdrywt	1	820	820	310	620
Dibenzofuran	U	250	ug/Kgdrywt	1	330	330	79.	250
2,4-Dinitrotoluene	U	250	ug/Kgdrywt	1	330	330	85.	250
Diethylphthalate	U	250	ug/Kgdrywt	1	330	330	80.	250
4-Chlorophenyl-Phenylether	U	250	ug/Kgdrywt	1	330	330	78.	250
Fluorene	U	250	ug/Kgdrywt	1	330	330	81.	250
4-Nitroaniline	U	620	ug/Kgdrywt	1	820	820	130	620
4,6-Dinitro-2-Methylphenol	U	620	ug/Kgdrywt	1	820	820	340	620
N-Nitrosodiphenylamine	U	250	ug/Kgdrywt	1	330	330	220	250
4-Bromophenyl-Phenylether	U	250	ug/Kgdrywt	1	330	330	85.	250
Hexachlorobenzene	U	250	ug/Kgdrywt	1	330	330	82.	250
Pentachlorophenol	U	620	ug/Kgdrywt	1	820	820	240	620
Phenanthrene	U	250	ug/Kgdrywt	1	330	330	83.	250
Anthracene	U	250	ug/Kgdrywt	1	330	330	84.	250
Carbazole	U	250	ug/Kgdrywt	1	330	330	110	250
Di-N-Butylphthalate	U	250	ug/Kgdrywt	1	330	330	100	250
Fluoranthene	U	250	ug/Kgdrywt	1	330	330	110	250
Pyrene	U	250	ug/Kgdrywt	1	330	330	100	250
Butylbenzylphthalate	U	250	ug/Kgdrywt	1	330	330	93.	250
3,3'-Dichlorobenzidine	U	250	ug/Kgdrywt	1	330	330	110	250
Benzo(a)anthracene	U	250	ug/Kgdrywt	1	330	330	86.	250
Chrysene	U	250	ug/Kgdrywt	1	330	330	95.	250
Bis(2-Ethylhexyl)Phthalate	U	250	ug/Kgdrywt	1	330	330	98.	250
Di-N-Octylphthalate	U	250	ug/Kgdrywt	1	330	330	210	250
Benzo(b)fluoranthene	U	250	ug/Kgdrywt	1	330	330	130	250
Benzo(k)fluoranthene	U	250	ug/Kgdrywt	1	330	330	83.	250
Benzo(a)pyrene	U	250	ug/Kgdrywt	1	330	330	93.	250
Indeno(1,2,3-cd)pyrene	U	250	ug/Kgdrywt	1	330	330	120	250
Dibenzo(a,h)anthracene	U	250	ug/Kgdrywt	1	330	330	130	250
Benzo(g,h,i)perylene	U	250	ug/Kgdrywt	1	330	330	100	250
2-Fluorophenol		64.1						
Phenol-d6		69.8						
Nitrobenzene-d5		63.9						
2-Fluorobiphenyl		82.7						

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Report of Analytical Results

Client:
Lab ID: WG156989-1
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: U9270.D

Sample Date:
Received Date:
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG156989

Analysis Date: 19-JAN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA
Report Date: 20-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2,4,6-Tribromophenol		75.5						
Terphenyl-d14		99.0						

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Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9270.D
Report Date: 20-Jan-2015 10:02

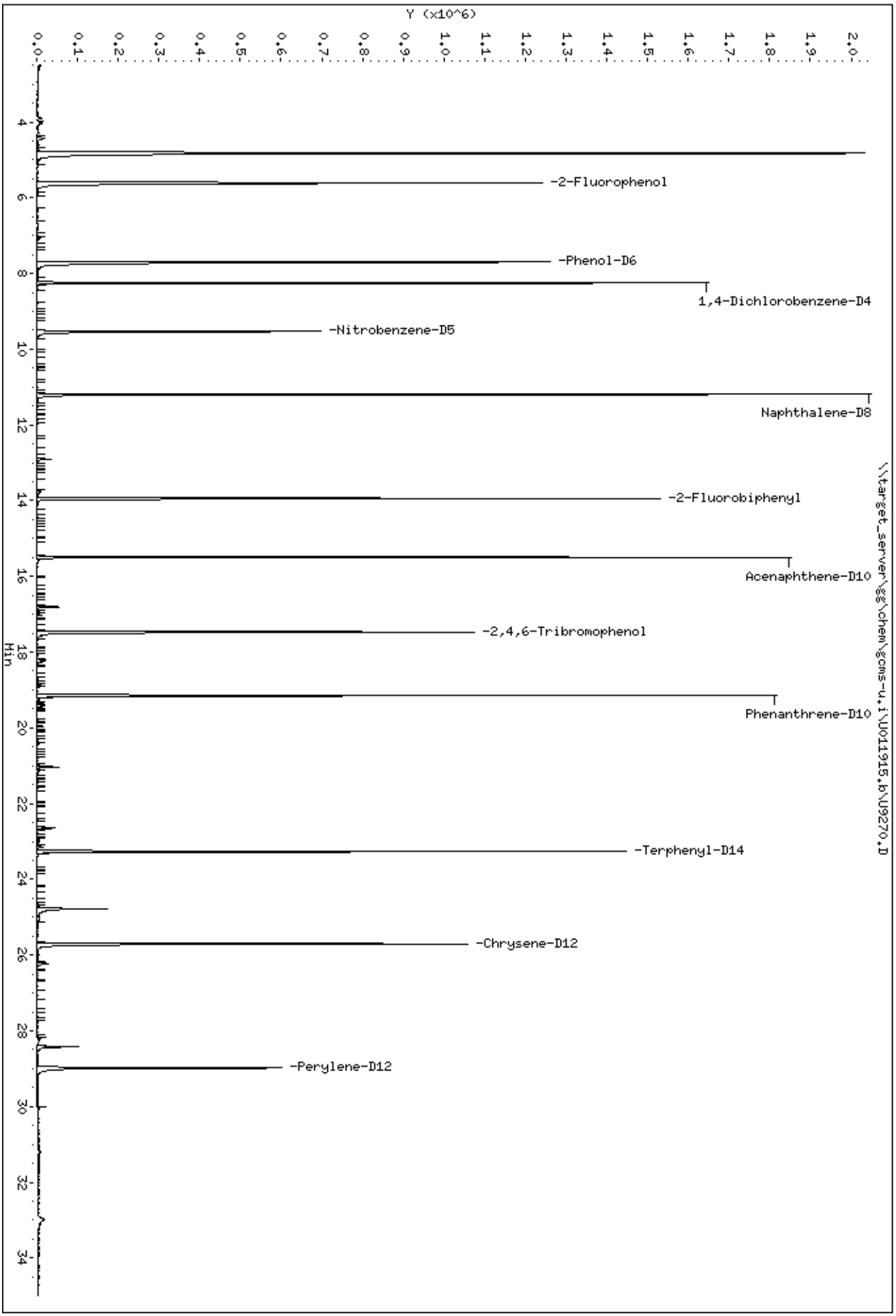
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011915.b\U9270.D
Lab Smp Id: WG156989-1 Client Smp ID: WG156989-Blank
Inj Date : 19-JAN-2015 12:15 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG156989-1,SI0230
Misc Info : WG157161,WG156989,WG156827-4,SI0230-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011915.b\U8270C70.m
Meth Date : 19-Jan-2015 14:50 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 16:53 Cal File: U9212.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8270bnaDoD.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Ws*Vi)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kgdrywt)	REVIEW COD
$	8 2-Fluorophenol	112	5.608	5.590	(0.680)	857030	64.0612	2140	
$	14 Phenol-D6	99	7.699	7.701	(0.933)	1007096	69.8111	2330	
*	19 1,4-Dichlorobenzene-D4	152	8.247	8.240	(1.000)	411327	40.0000		
$	33 Nitrobenzene-D5	82	9.531	9.544	(0.851)	409580	31.9567	1060	
*	44 Naphthalene-D8	136	11.197	11.210	(1.000)	1662069	40.0000		
$	64 2-Fluorobiphenyl	172	13.950	13.953	(0.900)	892005	41.3320	1380	
*	77 Acenaphthene-D10	164	15.503	15.505	(1.000)	858050	40.0000		
$	101 2,4,6-Tribromophenol	330	17.480	17.493	(1.127)	274255	75.5007	2520	
*	114 Phenanthrene-D10	188	19.146	19.159	(1.000)	1285848	40.0000		
$	129 Terphenyl-D14	244	23.265	23.268	(0.905)	898276	49.4838	1650	
*	139 Chrysene-D12	240	25.708	25.721	(1.000)	830622	40.0000		
*	150 Perylene-D12	264	28.979	28.981	(1.000)	535582	40.0000		


Y (x10^6)
Min
-2-Fluorophenol
-Phenol-D6
1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
-2,4,6-Tribromophenol
Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12
\\target_server\gg\chem\gcms-u,i\U011915,b\U9270,D
Data File: \\target_server\gg\chem\gcms-u,i\U011915,b\U9270,D
Date : 19-JAN-2015 12:15
Client ID: WG156989-Blank
Sample Info: WG156989-1,SI0230
Instrument: gcms-u,i

LCS/LCSD Recovery Report

LCS ID: WG156989-2
LCSD ID: WG156989-3
Project:
SDG: SI0230
Report Date: 20-JAN-15
LCS File ID: U9282.D

Received Date:
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG156989
LCSD File ID: U9283.D

Analysis Date: 19-JAN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Phenol	3330	1850	55.6	1840	55.2	ug/Kgdrywt	0	50	40-100
Bis(2-Chloroethyl)Ether	1670	1050	62.9	1060	63.5	ug/Kgdrywt	1	50	40-105
2-Chlorophenol	3330	1920	57.6	1980	59.4	ug/Kgdrywt	3	50	45-105
1,3-Dichlorobenzene	1670	931.	55.7	981.	58.7	ug/Kgdrywt	5	50	40-100
1,4-Dichlorobenzene	1670	970.	58.1	1000	59.9	ug/Kgdrywt	3	50	35-105
1,2-Dichlorobenzene	1670	960.	57.5	992.	59.4	ug/Kgdrywt	3	50	45-100
2-Methylphenol	3330	1710	51.4	1680	50.4	ug/Kgdrywt	2	50	40-105
2,2'-Oxybis(1-Chloropropane)	1670	765.	45.8	798.	47.8	ug/Kgdrywt	4	50	20-115
3&4-Methylphenol	3330	1710	51.4	1710	51.4	ug/Kgdrywt	0	50	40-105
N-Nitroso-Di-N-Propylamine	1670	998.	59.8	962.	57.6	ug/Kgdrywt	4	50	40-115
Hexachloroethane	1670	1040	62.3	1080	64.7	ug/Kgdrywt	4	50	35-110
Nitrobenzene	1670	949.	56.8	982.	58.8	ug/Kgdrywt	3	50	40-115
Isophorone	1670	946.	56.6	923.	55.3	ug/Kgdrywt	2	50	45-110
2-Nitrophenol	3330	1940	58.2	1960	58.8	ug/Kgdrywt	1	50	40-110
2,4-Dimethylphenol	3330	1590	47.7	1550	46.5	ug/Kgdrywt	2	50	30-105
Bis(2-Chloroethoxy)Methane	1670	817.	48.9	852.	51.0	ug/Kgdrywt	4	50	45-110
2,4-Dichlorophenol	3330	2040	61.3	2110	63.4	ug/Kgdrywt	3	50	45-110
1,2,4-Trichlorobenzene	1670	1010	60.5	1040	62.3	ug/Kgdrywt	3	50	45-110
Naphthalene	1670	1060	63.5	1070	64.1	ug/Kgdrywt	1	50	40-105
4-Chloroaniline	1670	714.	42.8	658.	39.4	ug/Kgdrywt	8	50	10-100
Hexachlorobutadiene	1670	1170	70.0	1230	73.6	ug/Kgdrywt	5	50	40-115
4-Chloro-3-Methylphenol	3330	2080	62.5	2010	60.4	ug/Kgdrywt	3	50	45-115
2-Methylnaphthalene	1670	898.	53.8	864.	51.7	ug/Kgdrywt	4	50	45-105
Hexachlorocyclopentadiene	1670	837.	50.1	915.	54.8	ug/Kgdrywt	9	50	10-70
2,4,6-Trichlorophenol	3330	2310	69.4	2380	71.5	ug/Kgdrywt	3	50	45-110
2,4,5-Trichlorophenol	3330	2600	78.1	2510	75.4	ug/Kgdrywt	4	50	50-110
2-Chloronaphthalene	1670	775.	46.4	797.	47.7	ug/Kgdrywt	3	50	45-105
2-Nitroaniline	1670	1080	64.7	1050	62.9	ug/Kgdrywt	3	50	45-120
Dimethyl Phthalate	1670	1390	83.2	1330	79.6	ug/Kgdrywt	4	50	50-110
Acenaphthylene	1670	998.	59.8	1010	60.5	ug/Kgdrywt	1	50	45-105
2,6-Dinitrotoluene	1670	1340	80.2	1280	76.6	ug/Kgdrywt	4	50	50-110
3-Nitroaniline	1670	776.	46.5	716.	42.9	ug/Kgdrywt	8	50	25-110
Acenaphthene	1670	1040	62.3	1010	60.5	ug/Kgdrywt	3	50	45-110
2,4-Dinitrophenol	3330	1100	33.0	817.	24.5	ug/Kgdrywt	30	50	15-130

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LCS/LCSD Recovery Report

LCS ID: WG156989-2
LCSD ID: WG156989-3
Project:
SDG: SI0230
Report Date: 20-JAN-15
LCS File ID: U9282.D

Received Date:
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG156989
LCSD File ID: U9283.D

Analysis Date: 19-JAN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
4-Nitrophenol	3330	2390	71.8	2060	61.9	ug/Kgdrywt	15	50	15-140
Dibenzofuran	1670	1190	71.2	1150	68.9	ug/Kgdrywt	3	50	50-105
2,4-Dinitrotoluene	1670	1340	80.2	1190	71.2	ug/Kgdrywt	12	50	50-115
Diethylphthalate	1670	1060	63.5	962.	57.6	ug/Kgdrywt	10	50	50-115
4-Chlorophenyl-Phenylether	1670	1290	77.2	1250	74.8	ug/Kgdrywt	3	50	45-110
Fluorene	1670	1140	68.3	1080	64.7	ug/Kgdrywt	5	50	50-110
4-Nitroaniline	1670	995.	59.6	877.	52.5	ug/Kgdrywt	13	50	35-115
4,6-Dinitro-2-Methylphenol	3330	2280	68.5	2130	64.0	ug/Kgdrywt	7	50	30-135
N-Nitrosodiphenylamine	1670	1250	74.8	1280	76.6	ug/Kgdrywt	2	50	50-115
4-Bromophenyl-Phenylether	1670	1500	89.8	1560	93.4	ug/Kgdrywt	4	50	45-115
Hexachlorobenzene	1670	1430	85.6	1430	85.6	ug/Kgdrywt	0	50	45-120
Pentachlorophenol	3330	2800	84.1	2570	77.2	ug/Kgdrywt	8	50	25-120
Phenanthrene	1670	1320	79.0	1260	75.4	ug/Kgdrywt	5	50	50-110
Anthracene	1670	1290	77.2	1280	76.6	ug/Kgdrywt	1	50	55-105
Carbazole	1670	1270	76.0	1200	71.8	ug/Kgdrywt	6	50	45-115
Di-N-Butylphthalate	1670	1340	80.2	1260	75.4	ug/Kgdrywt	6	50	55-110
Fluoranthene	1670	1310	78.4	1220	73.0	ug/Kgdrywt	7	50	55-115
Pyrene	1670	1510	90.4	1510	90.4	ug/Kgdrywt	0	50	45-125
Butylbenzylphthalate	1670	1300	77.8	1280	76.6	ug/Kgdrywt	2	50	50-125
3,3'-Dichlorobenzidine	3330	1800	54.0	1780	53.4	ug/Kgdrywt	1	50	10-130
Benzo(a)anthracene	1670	1390	83.2	1350	80.8	ug/Kgdrywt	3	50	50-110
Chrysene	1670	1540	92.2	1490	89.2	ug/Kgdrywt	3	50	55-110
Bis(2-Ethylhexyl)Phthalate	1670	1320	79.0	1250	74.8	ug/Kgdrywt	5	50	45-125
Di-N-Octylphthalate	1670	1240	74.2	1170	70.0	ug/Kgdrywt	6	50	40-130
Benzo(b)fluoranthene	1670	1370	82.0	1370	82.0	ug/Kgdrywt	0	50	45-115
Benzo(k)fluoranthene	1670	1620	97.0	1440	86.2	ug/Kgdrywt	12	50	45-125
Benzo(a)pyrene	1670	1330	79.6	1310	78.4	ug/Kgdrywt	2	50	50-110
Indeno(1,2,3-cd)pyrene	1670	1220	73.0	1250	74.8	ug/Kgdrywt	2	50	40-120
Dibenzo(a,h)anthracene	1670	1180	70.6	1160	69.5	ug/Kgdrywt	2	50	40-125
Benzo(g,h,i)perylene	1670	1290	77.2	1260	75.4	ug/Kgdrywt	2	50	40-125
2-Fluorophenol			55.1		55.2				35-105
Phenol-d6			58.0		56.9				40-100
Nitrobenzene-d5			56.4		56.0				35-100
2-Fluorobiphenyl			74.9		74.6				45-105

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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LCS/LCSD Recovery Report

LCS ID: WG156989-2
LCSD ID: WG156989-3
Project:
SDG: SI0230
Report Date: 20-JAN-15
LCS File ID: U9282.D

Received Date:
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3550
Lab Prep Batch: WG156989
LCSD File ID: U9283.D

Analysis Date: 19-JAN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA

2,4,6-Tribromophenol	77.6	70.1	35-125
Terphenyl-d14	88.4	86.0	30-125

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9282.D
Report Date: 20-Jan-2015 10:02

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011915.b\U9282.D
Lab Smp Id: WG156989-2 Client Smp ID: WG156989-LCS
Inj Date : 19-JAN-2015 21:00 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG156989-2,SI0230
Misc Info : WG157161,WG156989,WG156827-4,SI0230-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011915.b\U8270C70.m
Meth Date : 19-Jan-2015 14:50 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 16:53 Cal File: U9212.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8270bnaDoD.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Ws*Vi)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kgdrywt)	REVIEW COD
$	8 2-Fluorophenol	112	5.601	5.590	(0.679)	767547	55.0968	1840	
$	14 Phenol-D6	99	7.702	7.701	(0.934)	870939	57.9780	1930	
	15 Phenol	94	7.733	7.722	(0.937)	891205	55.5521	1850	
	16 Bis(2-Chloroethyl)ether	93	7.764	7.753	(0.941)	368368	31.5957	1050	
	17 2-Chlorophenol	128	7.826	7.826	(0.949)	771152	57.6529	1920	
	18 1,3-Dichlorobenzene	146	8.116	8.105	(0.984)	415806	27.9311	931	
*	19 1,4-Dichlorobenzene-D4	152	8.250	8.240	(1.000)	428317	40.0000		
	20 1,4-Dichlorobenzene	146	8.281	8.281	(1.004)	428137	29.1051	970	
	21 1,2-Dichlorobenzene	146	8.623	8.612	(1.045)	411183	28.7946	960	
	25 2-Methylphenol	108	9.058	9.099	(1.098)	663455	51.2728	1710	
	24 2,2'-Oxybis(1-chloropropane)	45	8.996	9.016	(1.090)	389280	22.9570	765	
	32 3&4-Methylphenol	108	9.441	9.471	(1.144)	704553	51.4485	1710	
	30 N-Nitroso-di-n-propylamine	70	9.316	9.326	(1.129)	242186	29.9412	998	
	31 Hexachloroethane	117	9.379	9.378	(1.137)	175370	31.2272	1040	
$	33 Nitrobenzene-D5	82	9.534	9.544	(0.851)	357106	28.2224	941	
	34 Nitrobenzene	77	9.575	9.585	(0.855)	360058	28.4640	949	
	36 Isophorone	82	10.217	10.206	(0.912)	701245	28.3830	946	
	37 2-Nitrophenol	139	10.341	10.341	(0.923)	432509	58.2545	1940	
	38 2,4-Dimethylphenol	107	10.652	10.662	(0.951)	609214	47.8012	1590	
	40 Bis(2-Chloroethoxy)methane	93	10.817	10.827	(0.966)	415054	24.5198	817	

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9282.D
Report Date: 20-Jan-2015 10:02

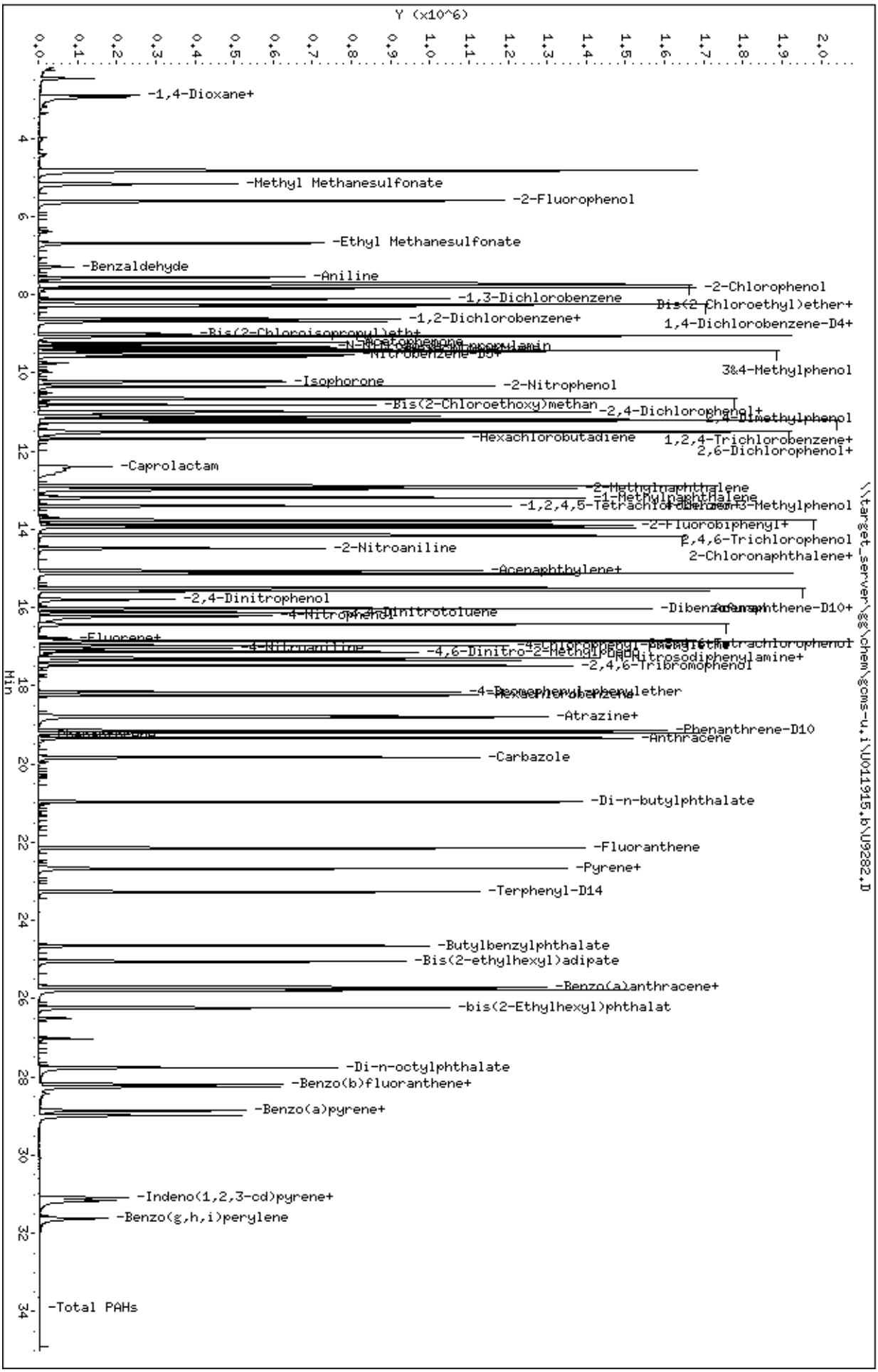
							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kgdrywt)	REVIEW COD
	41 2,4-Dichlorophenol	162	10.993	11.003	(0.982)	673907	61.3236	2040	
	42 1,2,4-Trichlorobenzene	180	11.117	11.117	(0.993)	347500	30.4214	1010	
*	44 Naphthalene-D8	136	11.200	11.210	(1.000)	1640875	40.0000		
	45 Naphthalene	128	11.252	11.251	(1.005)	1054133	31.7023	1060	
	46 4-Chloroaniline	127	11.500	11.500	(1.027)	292719	21.4312	714	
	50 Hexachlorobutadiene	225	11.666	11.676	(1.042)	199068	35.0093	1170	
	55 4-Chloro-3-Methylphenol	107	12.887	12.897	(1.151)	683429	62.4580	2080	
	56 2-Methylnaphthalene	142	12.960	12.970	(1.157)	729160	26.9451	898	
	60 Hexachlorocyclopentadiene	237	13.415	13.425	(0.865)	140160	25.1052	837	
	62 2,4,6-Trichlorophenol	196	13.767	13.777	(0.888)	497091	69.2689	2310	
	63 2,4,5-Trichlorophenol	196	13.881	13.901	(0.895)	567982	78.0521	2600	
$	64 2-Fluorobiphenyl	172	13.953	13.953	(0.900)	788335	37.4444	1250	
	65 2-Chloronaphthalene	162	14.140	14.139	(0.912)	706176	23.2460	775	
	69 2-Nitroaniline	65	14.492	14.501	(0.935)	219757	32.5447	1080	
	73 Dimethyl Phthalate	163	15.061	15.081	(0.971)	967945	41.6610	1390	
	74 Acenaphthylene	152	15.123	15.133	(0.975)	982855	29.9462	998	
	75 2,6-Dinitrotoluene	165	15.133	15.143	(0.976)	207035	40.2689	1340	
*	77 Acenaphthene-D10	164	15.506	15.505	(1.000)	837058	40.0000		
	78 3-Nitroaniline	138	15.527	15.536	(1.001)	149979	23.2719	776(a)	
	79 Acenaphthene	153	15.578	15.588	(1.005)	678359	31.1892	1040	
	80 2,4-Dinitrophenol	184	15.796	15.816	(1.019)	109053	32.9428	1100	
	86 4-Nitrophenol	139	16.220	16.261	(1.046)	316968	71.6158	2390	
	82 Dibenzofuran	168	16.023	16.023	(1.033)	1005770	35.7512	1190	
	83 2,4-Dinitrotoluene	165	16.127	16.147	(1.040)	289228	40.1421	1340	
	89 Diethylphthalate	149	16.851	16.851	(1.087)	886545	31.7249	1060	
	91 4-Chlorophenyl-phenylether	204	16.976	16.975	(1.095)	409962	38.6478	1290	
	90 Fluorene	166	16.862	16.872	(1.087)	841623	34.1891	1140	
	95 4-Nitroaniline	138	17.048	17.068	(1.099)	187544	29.8442	995(Q)	
	96 4,6-Dinitro-2-Methylphenol	198	17.131	17.141	(0.895)	251259	68.3376	2280	
	97 N-Nitrosodiphenylamine	169	17.296	17.306	(0.903)	635346	37.5814	1250	
$	101 2,4,6-Tribromophenol	330	17.483	17.493	(1.127)	275019	77.6098	2590	
	104 4-Bromophenyl-phenylether	248	18.166	18.165	(0.949)	252364	45.0562	1500	
	106 Hexachlorobenzene	284	18.238	18.248	(0.952)	283520	42.9031	1430	
	111 Pentachlorophenol	266	18.797	18.817	(0.982)	306211	83.9801	2800	
*	114 Phenanthrene-D10	188	19.149	19.159	(1.000)	1151808	40.0000		
	115 Phenanthrene	178	19.211	19.221	(1.003)	1174866	39.4749	1320	
	116 Anthracene	178	19.335	19.345	(1.010)	1148934	38.7661	1290	
	119 Carbazole	167	19.822	19.832	(1.035)	1002985	38.0040	1270	
	121 Di-n-butylphthalate	149	20.960	20.970	(1.095)	1482014	40.3180	1340	
	126 Fluoranthene	202	22.151	22.161	(1.157)	1101778	39.2293	1310	
	128 Pyrene	202	22.668	22.678	(0.881)	1120451	45.3280	1510	
$	129 Terphenyl-D14	244	23.268	23.268	(0.905)	686228	44.2209	1470	
	135 Butylbenzylphthalate	149	24.645	24.645	(0.958)	480022	39.0903	1300	
*	139 Chrysene-D12	240	25.721	25.721	(1.000)	710063	40.0000		
	140 3,3'-Dichlorobenzidine	252	25.773	25.773	(1.002)	280530	53.8836	1800	
	138 Benzo(a)anthracene	228	25.690	25.700	(0.999)	715488	41.6487	1390	
	141 Chrysene	228	25.773	25.783	(1.002)	717783	46.0526	1540	
	142 bis(2-Ethylhexyl)phthalate	149	26.229	26.238	(1.020)	664064	39.5700	1320	
	144 Di-n-octylphthalate	149	27.760	27.760	(0.958)	917231	37.3223	1240	
	145 Benzo(b)fluoranthene	252	28.195	28.205	(0.973)	503942	41.1939	1370	
	147 Benzo(k)fluoranthene	252	28.247	28.257	(0.975)	621704	48.6871	1620(H)	
	148 Benzo(a)pyrene	252	28.858	28.867	(0.996)	434497	39.9887	1330	
*	150 Perylene-D12	264	28.982	28.981	(1.000)	459100	40.0000		
	153 Indeno(1,2,3-cd)pyrene	276	31.083	31.082	(1.072)	224526	36.5531	1220	

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9282.D
Report Date: 20-Jan-2015 10:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kgdrywt)	REVIEW COD
154 Dibenzo(a,h)anthracene	278	31.166	31.165	(1.075)	232818	35.2697	1180	
155 Benzo(g,h,i)perylene	276	31.611	31.610	(1.091)	271457	38.7079	1290	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U011915,b\U9282,D
Date : 19-JAN-2015 21:00
Client ID: WG156989-LCS
Sample Info: WG156989-2,SI0230
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u,i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U011915,b\U9282,D
Y (x10^6)
Min
-1,4-Dioxane+
-Methyl Methanesulfonate
-2-Fluorophenol
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-2-Chlorophenol
-1,3-Dichlorobenzene
Bis(2-Chloroethyl)ether+
-1,2-Dichlorobenzene+
1,4-Dichlorobenzene-D4+
-Bis(2-Chloroisopropyl)eth+
Nitrobenzene-D5+
3&4-Methylphenol
-Isophorone
-2-Nitrophenol
-Bis(2-Chloroethoxy)methan
-2,4-Dichlorophenol+
2,4-Dimethylphenol
-Hexachlorobutadiene
1,2,4-Trichlorobenzene+
2,6-Dichlorophenol+
-Caprolactam
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen
3-Methylphenol
-2-Fluorobiphenyl+
2,4,6-Trichlorophenol
-2-Nitroaniline
2-Chloronaphthalene+
-Acenaphthylene+
-2,4-Dinitrophenol
-Dibenzofuran
Acenaphthene-D10+
-4-Nitrophenol
-2,4-Dinitrotoluene
-Fluorene+
-4-Nitroaniline
-4,6-Dinitro-2-Methylphen
-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether
Hexachlorobenzene
-Atrazine+
-Phenanthrene-D10
-Anthracene
-Carbazole
-Di-n-butylphthalate
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-Benzo(a)anthracene+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene+
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
-Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9283.D
Report Date: 20-Jan-2015 10:02

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U011915.b\U9283.D
Lab Smp Id: WG156989-3 Client Smp ID: WG156989-LCSD
Inj Date : 19-JAN-2015 21:43 MS Autotune Date: 02-JAN-2015 09:23
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG156989-3,SI0230
Misc Info : WG157161,WG156989,WG156827-4,SI0230-1
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U011915.b\U8270C70.m
Meth Date : 19-Jan-2015 14:50 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2015 16:53 Cal File: U9212.D
Als bottle: 16 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8270bnaDoD.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Ws*Vi)*(100/(100-M))*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kgdrywt)	REVIEW COD
$	8 2-Fluorophenol	112	5.608	5.590	(0.680)	807812	55.1593	1840	
$	14 Phenol-D6	99	7.699	7.701	(0.933)	898015	56.8652	1900	
	15 Phenol	94	7.730	7.722	(0.937)	930619	55.1800	1840	
	16 Bis(2-Chloroethyl)ether	93	7.761	7.753	(0.941)	390654	31.8732	1060	
	17 2-Chlorophenol	128	7.833	7.826	(0.950)	835528	59.4196	1980	
	18 1,3-Dichlorobenzene	146	8.113	8.105	(0.984)	460531	29.4269	981	
*	19 1,4-Dichlorobenzene-D4	152	8.247	8.240	(1.000)	450275	40.0000		
	20 1,4-Dichlorobenzene	146	8.288	8.281	(1.005)	466574	30.1713	1000	
	21 1,2-Dichlorobenzene	146	8.620	8.612	(1.045)	446766	29.7607	992	
	25 2-Methylphenol	108	9.054	9.099	(1.098)	684838	50.3444	1680	
	24 2,2'-Oxybis(1-chloropropane)	45	9.013	9.016	(1.093)	426791	23.9418	798	
	32 3&4-Methylphenol	108	9.437	9.471	(1.144)	740437	51.4322	1710	
	30 N-Nitroso-di-n-propylamine	70	9.313	9.326	(1.129)	245406	28.8597	962	
	31 Hexachloroethane	117	9.375	9.378	(1.137)	191374	32.4151	1080	
$	33 Nitrobenzene-D5	82	9.541	9.544	(0.851)	364880	28.0249	934	
	34 Nitrobenzene	77	9.582	9.585	(0.855)	383605	29.4717	982	
	36 Isophorone	82	10.214	10.206	(0.911)	704132	27.6974	923	
	37 2-Nitrophenol	139	10.348	10.341	(0.923)	448662	58.7288	1960	
	38 2,4-Dimethylphenol	107	10.659	10.662	(0.951)	611586	46.6363	1550	
	40 Bis(2-Chloroethoxy)methane	93	10.814	10.827	(0.965)	445036	25.5509	852	

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9283.D
Report Date: 20-Jan-2015 10:02

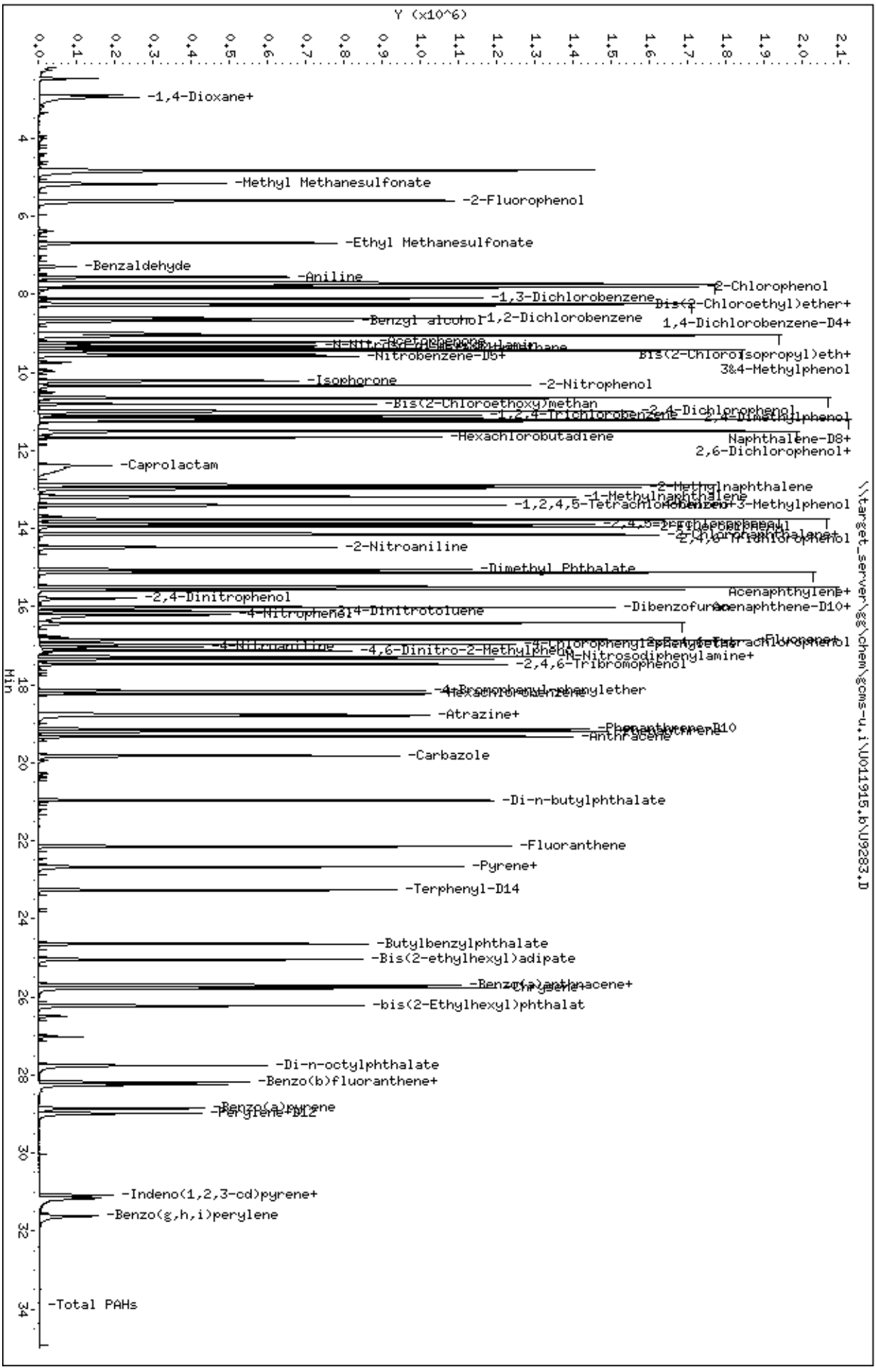
							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kgdrywt)	REVIEW COD
	41 2,4-Dichlorophenol	162	10.990	11.003	(0.981)	714955	63.2271	2110	
	42 1,2,4-Trichlorobenzene	180	11.114	11.117	(0.992)	368175	31.3239	1040	
*	44 Naphthalene-D8	136	11.207	11.210	(1.000)	1688411	40.0000		
	45 Naphthalene	128	11.249	11.251	(1.004)	1098791	32.1150	1070	
	46 4-Chloroaniline	127	11.497	11.500	(1.026)	277401	19.7379	658	
	50 Hexachlorobutadiene	225	11.673	11.676	(1.042)	216325	36.9731	1230	
	55 4-Chloro-3-Methylphenol	107	12.894	12.897	(1.151)	680437	60.4338	2010	
	56 2-Methylnaphthalene	142	12.967	12.970	(1.157)	721947	25.9274	864	
	60 Hexachlorocyclopentadiene	237	13.422	13.425	(0.866)	153251	27.4486	915	
	62 2,4,6-Trichlorophenol	196	13.764	13.777	(0.888)	513144	71.5020	2380	
	63 2,4,5-Trichlorophenol	196	13.878	13.901	(0.895)	548786	75.4102	2510	
$	64 2-Fluorobiphenyl	172	13.950	13.953	(0.900)	785932	37.3283	1240	
	65 2-Chloronaphthalene	162	14.136	14.139	(0.912)	724531	23.9244	797	
	69 2-Nitroaniline	65	14.488	14.501	(0.935)	213347	31.5937	1050	
	73 Dimethyl Phthalate	163	15.057	15.081	(0.971)	924549	39.7911	1330	
	74 Acenaphthylene	152	15.130	15.133	(0.976)	993854	30.2797	1010	
	75 2,6-Dinitrotoluene	165	15.140	15.143	(0.977)	198285	38.5649	1280	
*	77 Acenaphthene-D10	164	15.503	15.505	(1.000)	837103	40.0000		
	78 3-Nitroaniline	138	15.523	15.536	(1.001)	138444	21.4809	716(a)	
	79 Acenaphthene	153	15.575	15.588	(1.005)	661895	30.2867	1010	
	80 2,4-Dinitrophenol	184	15.792	15.816	(1.019)	78016	24.5137	817(a)	
	86 4-Nitrophenol	139	16.217	16.261	(1.046)	274059	61.9176	2060	
	82 Dibenzofuran	168	16.020	16.023	(1.033)	970850	34.5081	1150	
	83 2,4-Dinitrotoluene	165	16.124	16.147	(1.040)	257210	35.6963	1190	
	89 Diethylphthalate	149	16.848	16.851	(1.087)	827673	28.8694	962	
	91 4-Chlorophenyl-phenylether	204	16.972	16.975	(1.095)	398647	37.5791	1250	
	90 Fluorene	166	16.869	16.872	(1.088)	810415	32.5611	1080	
	95 4-Nitroaniline	138	17.045	17.068	(1.099)	165387	26.3169	877(Q)	
	96 4,6-Dinitro-2-Methylphenol	198	17.128	17.141	(0.895)	213954	64.0470	2130	
	97 N-Nitrosodiphenylamine	169	17.293	17.306	(0.903)	589528	38.3802	1280	
$	101 2,4,6-Tribromophenol	330	17.479	17.493	(1.127)	248555	70.1379	2340	
	104 4-Bromophenyl-phenylether	248	18.163	18.165	(0.949)	238904	46.9451	1560	
	106 Hexachlorobenzene	284	18.245	18.248	(0.953)	257698	42.9196	1430	
	111 Pentachlorophenol	266	18.804	18.817	(0.982)	255813	77.2179	2570	
*	114 Phenanthrene-D10	188	19.146	19.159	(1.000)	1046502	40.0000		
	115 Phenanthrene	178	19.208	19.221	(1.003)	1026839	37.9730	1260	
	116 Anthracene	178	19.332	19.345	(1.010)	1038734	38.5746	1280	
	119 Carbazole	167	19.819	19.832	(1.035)	860252	35.8757	1200	
	121 Di-n-butylphthalate	149	20.967	20.970	(1.095)	1266530	37.9229	1260	
	126 Fluoranthene	202	22.147	22.161	(1.157)	937388	36.7346	1220	
	128 Pyrene	202	22.675	22.678	(0.882)	963729	45.3997	1510	
$	129 Terphenyl-D14	244	23.265	23.268	(0.905)	573364	43.0244	1430	
	135 Butylbenzylphthalate	149	24.642	24.645	(0.958)	403722	38.2838	1280	
*	139 Chrysene-D12	240	25.718	25.721	(1.000)	609779	40.0000		
	140 3,3'-Dichlorobenzidine	252	25.780	25.773	(1.002)	239394	53.5445	1780	
	138 Benzo(a)anthracene	228	25.697	25.700	(0.999)	597424	40.4955	1350	
	141 Chrysene	228	25.770	25.783	(1.002)	597771	44.6601	1490	
	142 bis(2-Ethylhexyl)phthalate	149	26.225	26.238	(1.020)	542455	37.6395	1250	
	144 Di-n-octylphthalate	149	27.757	27.760	(0.958)	779721	35.0170	1170	
	145 Benzo(b)fluoranthene	252	28.192	28.205	(0.973)	456416	41.1778	1370	
	147 Benzo(k)fluoranthene	252	28.254	28.257	(0.975)	501141	43.3152	1440(H)	
	148 Benzo(a)pyrene	252	28.854	28.867	(0.995)	385906	39.1996	1310	
*	150 Perylene-D12	264	28.989	28.981	(1.000)	415966	40.0000		
	153 Indeno(1,2,3-cd)pyrene	276	31.079	31.082	(1.072)	209010	37.5812	1250	

Data File: \\target_server\gg\chem\gcms-u.i\U011915.b\U9283.D
Report Date: 20-Jan-2015 10:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kgdrywt)	REVIEW COD
154 Dibenzo(a,h)anthracene	278	31.162	31.165	(1.075)	207781	34.7408	1160	
155 Benzo(g,h,i)perylene	276	31.618	31.610	(1.091)	240570	37.8608	1260	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u,i\U011915,b\U9283,D
Date : 19-JAN-2015 21:43
Client ID: WG156989-LCSD
Sample Info: WG156989-3,SI0230
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u,i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u,i\U011915,b\U9283,D
Y (x10^6)
Min
-1,4-Dioxane+
-Methyl Methanesulfonate
-2-Fluorophenol
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-2-Chlorophenol
-1,3-Dichlorobenzene
Bis(2-Chloroethyl)ether+
-Benzyl alcohol
1,2-Dichlorobenzene
1,4-Dichlorobenzene-D4+
-Nitrobenzene-D5+
Bis(2-Chloroisopropyl)eth+
3&4-Methylphenol
-Isophorone
-2-Nitrophenol
-Bis(2-Chloroethoxy)methan
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
2,4-Dimethylphenol
-Hexachlorobutadiene
Naphthalene-D8+
2,6-Dichlorophenol+
-Caprolactam
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzene
3-Methylphenol
-2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
-2-Nitroaniline
-Dimethyl Phthalate
Acenaphthylene+
-2,4-Dinitrophenol
-Dibenzofuran
Acenaphthene-D10+
-4-Nitrophenol
2,4-Dinitrotoluene
-4-Nitroaniline
-4,6-Dinitro-2-Methylphen
N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Atrazine+
-Carbazole
-Di-n-butylphthalate
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
-Total PAHs

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

DATE OF DFTPP INJECTION: 011215

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG156827-1	50ng DFTPP	UD310	1	1	DFTPP390	2.0	JLG	OK
-4	SSD050 U0112	U92D07	1	2	U8270C70	1.0		✓
-2	010	08		3				✓
-3	025	09		4				✓
-5	075	10		5				✓
-6	100	11		6				✓
-7	125	12		7				✓
-8	IND	13		8				OK
3510	WG156826-1	14		9				OK
	-2	15		10				OK
	-3	16		11				OK
	S100227-BRE	17		12				OK
	S100137-2	18		13				OK
	-4	19		14				OK
	-5	20		15				OK
	-8	21		16				OK
	S100142-1	22		17				OK
	-2	23		18				OOC
	-3	24		19				Screen
	-4	25		20				
	-5	26		21				
	-6	27		22				
	-7	28		23				
	-8	29		24				
	-9	30		25				
	-10	31		26				

STANDARD	CODE
DFTPP	52528
CAL. STD.	52545 52K4813
IS MIX	50K4576

REVIEWED AND APPROVED BY: _____
DATE: _____

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

DATE OF DFTPP INJECTION: 01/19/15

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG157161-1	50 ng DFTPP	UD313	1	1	DFTPP390	2.0	JCL	OK
-2	SSTD050U0119	U9269		2	U8270C70	1.0		OK
3550	WG156989-1	70		3				OK
3550	WG157043-1	71		4				OK
↓	↓ -4	72		5				OK SPLP PBT 1223A
	↓ -8	73		6				OK SPLP PBT 1223D
	S10171-3	74		7				SSV2 SPLP
	↓ -13	75		8				OK
	S10199-2	76		9				OK SPLP
	↓ -8	77		10				OK
3550	S10230-1	78		11				OK
3510	S10172-14	79		12				OK
↓	WG157043-5	80		13				OK
	↓ -6	81		14				OK
3550	WG156989-2	82		15				OK
↓	↓ -3	83		16				OK
3510	WG157043-2	84		17				OK
↓	↓ -3	85		18				OK
								1/19/2015

STANDARD	CODE
DFTPP	52528
CAL. STD.	52545 SHK4913
IS MIX	SHK4876

REVIEWED AND APPROVED BY: _____
DATE: _____

SIS

SOW

KATAHDIN ANALYTICAL SERVICES, INC.

ORGANIC EXTRACTIONS LOG - SOIL SEMIVOLATILE

Extraction Method:	SW846 3550 (SONIC.) ✓	SW846 3540 (SOX)	SW846 3545 (ASE)	SW846 3580 (OIL / WIPES)
Analytical Method:	SW846 8270 ✓	OTHER		
Standards	Surrogate ID (1): SV2703	Spike ID (1): SVOA SV2701	Spike ID (3): SIM SV2703	
	Surrogate ID (2):	Spike ID (2):		
Solvents / Chemicals / Consumables	Solvent Lot # (Mecl2): DL877	Solvent Lot # (Acetone): DL474	Sodium Sulfate (granular) Lot # 279k003	
	Filter Paper Lot # (SON) R2011630	Filter Paper Lot # (KD) FC160546	Sodium Sulfate (powder) Lot # 279k003	
Misc.	Nitrogen Bath Temperature: 36°C	Sonicator Horns Tuned: 40 1,	Balance ID: Mettler PJ400	
Prep Start Time: 10	Prep Stop Time: 10:30	Sox Start Time:	Sox End Time:	

Ext. Date	Ext. Init.	Sample ID	Initial Weight (g)	Surr. Vol. (mL)	Spk. Vol. (mL)	Fraction SON	Fraction SIM	Pre-GPC Date Conc.	Pre-GPC Conc. Init.	Pre-GPC Final Vol. (mL)	Post-GPC Date Conc.	Post-GPC Conc. Init.	Post-GPC Final Vol. (mL)	Tray Loc.	Comments
1-15-15	~~TS~~	WG156989-1 WG156987-1	30.91	1.0	NR.			1-15-15	JMS	5mL	1-16-15	WAS	1mL	GWA1 Cv	R 304926 SV R 304927 SIM
		WG156989-2	30.02		10	✓								C3	
		↓ -3	30.04			✓								C4	
		WG156987-2	30.04				✓							C5	
		↓ -3	30.01				✓							C6	
		GPC Blank												C7	

Ext. Date	Ext. Init.	Sample ID ~~TS 1-15-15~~	Initial Weight (g)	Surr. Vol. (mL)	Spk. Vol. (mL)	Fraction SON	Fraction SIM	Pre-GPC Date Conc.	Pre-GPC Conc. Init.	Pre-GPC Final Vol. (mL)	Post-GPC Date Conc.	Post-GPC Conc. Init.	Post-GPC Final Vol. (mL)	Tray Loc.	Comments
1-15-15	~~TS~~	SI FH0230-1C	31.78	1.0	NR	✓		1-15-15	JMS	5mL	1-16-15	WAS	1mL	C8	
↓	↓	SI FH0258-1A	30.20	↓	↓		✓	↓	↓	↓	↓	↓	↓	C9	
		↓ -2A	31.43											C10	

Reviewed By_____ Date_____

Katahdin Analytical Services
GPC Logbook

#3

Analytical Method: (check one)	SW846 8081 ✓	SW846 8082 ✓		SW846 8270 ✓	
MeCl2 Lot #: DL877	Filter Lot #: —	Room Temperature (beginning):	21.0	Room Temperature (ending):	21.0
Flow Rate: 5.0 mL/min	Flow Rate Set at: 5.46 mL/min	GPC Dump Time:	45 min	GPC Collect Time:	—

Tray Pos. No.	Sample Identification	Date Extracted	Extract Volume	GPC Analyst	Date GPC Started	GPC Initial Volume	Comments
1	GPC Calib STD	-	—	WAS	1-14-15	5 mL	
2							
3	STD 5990						
4							
5	lot # 1010 4890						
6							
7	Low STD in MeCl2						
8	lot # DL877						
9					#	1-19-15	
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

Katahdin Analytical Services
GPC Logbook

Tray Pos. No.	Sample Identification	Date Extracted	Extract Volume	GPC Analyst	Date GPC Started	GPC Initial Volume	Comments
23							
24	CALIBRATION REPORT						
25							
26							
27							
28							
29							
30							
31							
32							
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36							
37							
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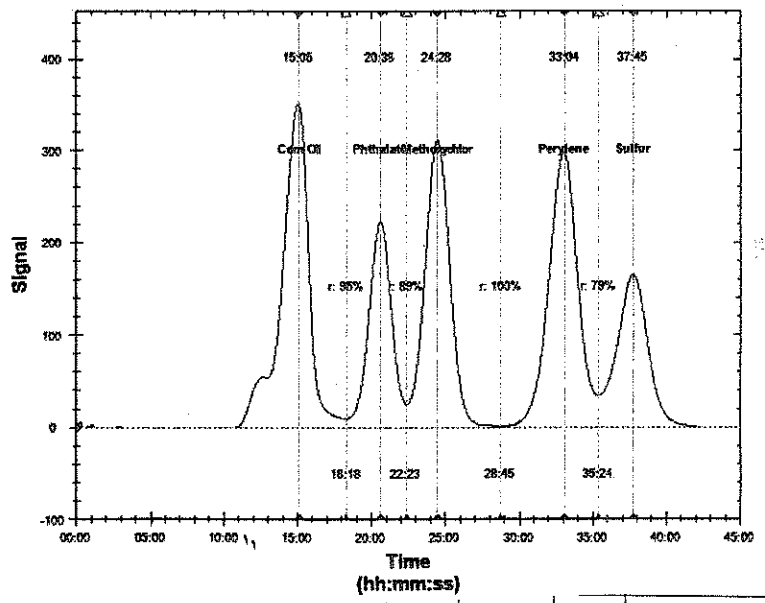
39							
40							
41							
42							
43							



P/P Dump: 22.09
collect: 13.00

S/S Dump: 18.00
collect: 23.00

Katahdin Analytical Services
GPC Logbook

#3

Analytical Method: (check one)	SW846 8081 ✓	SW846 8082		SW846 8270
MeCl2 Lot #: IL877	Filter Lot #: 595100S	Room Temperature (beginning):	20.0°C	Room Temperature (ending): 21.0°C
Flow Rate: 5.0ml/min	Flow Rate Set at: 5.4	GPC Dump Time: PP 22:00 SS 18:00		GPC Collect Time: PP 13:00 SS 23:00

Tray Pos. No.	Sample Identification	Date Extracted	Extract Volume	GPC Analyst	Date GPC Started	GPC Initial Volume	Comments
1	GPC Blank	1-15-15	—	~~TB~~	1-15-15	5	SIS
2	GPC Blank	↓	↓	↓	↓	↓	PIP
3	~~WG156925-1~~ WG156925-1	1-15-15	10ml	~~TB~~	1-15-15	5	
4	WG156926-2						
5	↓ -3						
6	WG156926-4						
7	WG156925-2						
8	↓ -3						
9	~~WG156991-1~~ WG156990-1						
10	WG156990-2						
11	↓ -3						
12	WG156991-2						
13	↓ -3		↓				
14	-4L		10.0ml				SS PIP ~~WG156925-1~~ SIS
15	~~WG156992-1~~ WG156987-1		50ml				
16	WG156987-2		↓				
17	↓ -3						
18	WG156987-2						
19	↓ -3						
20	SI0258-1		10ml				PIP
21	-2		↓				PIP
22	SI0258-1		5.0ml				SIS Lost on shutoff collection

Katahdin Analytical Services
GPC Logbook

Tray Pos. No.	Sample Identification	Date Extracted	Extract Volume	GPC Analyst	Date GPC Started	GPC Initial Volume	Comments
23	SI0258-2	1-15-15	5ml	~~TB~~	1-15-15	5ml	SIS
24	SI0230-1		↓	↓	↓	↓	SIS
25	~~TB~~ ~~SI~~ TH0769-1		10.0ml	↓	↓	↓	PIP RE
26	DryRun						
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41		"					
42						RE	PIP-5
43							

PCB DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI0230

Client Sample ID	Lab Sample ID	Col. ID	DCB	#	TCX	#
IDWGW-3178-011315	SI0230-2	A	10.9	*	37.5	*
IDWGW-3178-011315	SI0230-2	B	10.9	*	38.5	*
IDWGW-F0A37-011315	SI0230-3	A	11.9	*	26.4	*
IDWGW-F0A37-011315	SI0230-3	B	12.2	*	27.5	*
IDWGW-EG332-011315	SI0230-4	A	20.4	*	72.4	
IDWGW-EG332-011315	SI0230-4	B	21.6	*	71.5	
Method Blank Sample	WG156929-1	A	78.6		79.7	
Method Blank Sample	WG156929-1	B	76.5		78.1	
Laboratory Control S	WG156929-2	A	67.5		86.2	
Laboratory Control S	WG156929-2	B	70.5		84.0	
Laboratory Control S	WG156929-3	A	57.9		77.9	
Laboratory Control S	WG156929-3	B	60.5		76.7	

		QC Limits
TCX	TETRACHLORO-M-XYLENE	62-111
DCB	DECACHLOROBIPHENYL	40-135

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** SL
Lab Code: KAS **SDG:** SI0230

Client Sample ID	Lab Sample ID	Col. ID	DCB	#	TCX	#
IDWS-0312-011315	SI0230-1	A	87.8		86.6	
IDWS-0312-011315	SI0230-1	B	88.3		81.4	
Method Blank Sample	WG157001-1	A	82.3		69.7	
Method Blank Sample	WG157001-1	B	82.9		68.2	
Laboratory Control S	WG157001-2	A	79.9		59.8	
Laboratory Control S	WG157001-2	B	83.8		60.4	
Laboratory Control S	WG157001-3	A	88.9		77.8	
Laboratory Control S	WG157001-3	B	92.2		76.3	

		QC Limits
DCB	DECACHLOROBIPHENYL	60-125
TCX	TETRACHLORO-M-XYLENE	56-115

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG156929-1
Lab File ID : 7IA236.D
Date Extracted : 14-JAN-15
Matrix : AQ
Extraction Method : SW846 3510

Column A
Instrument ID : GC07
Date Analyzed : 15-JAN-15
Time Analyzed : 12:28

Column B
Instrument ID : GC07
Date Analyzed : 15-JAN-15
Time Analyzed : 12:28

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG156929-2	7IA237.D	01/15/15	13:03
Laboratory Control S	WG156929-3	7IA238.D	01/15/15	13:37
IDWGW-3178-011315	SI0230-2	7IA242.D	01/15/15	15:56
IDWGW-F0A37-011315	SI0230-3	7IA243.D	01/15/15	16:31
IDWGW-EG332-011315	SI0230-4	7IA244.D	01/15/15	17:05

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG157001-1
Lab File ID : 7IA282.D
Date Extracted : 15-JAN-15
Matrix : SL
Extraction Method : SW846 3540

Column A
Instrument ID : GC07
Date Analyzed : 19-JAN-15
Time Analyzed : 12:45

Column B
Instrument ID : GC07
Date Analyzed : 19-JAN-15
Time Analyzed : 12:45

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG157001-2	7IA283.D	01/19/15	13:20
Laboratory Control S	WG157001-3	7IA284.D	01/19/15	13:55
IDWS-0312-011315	SI0230-1	7IA285.D	01/19/15	14:29

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services **SDG :** SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, **Column ID :** A
Instrument ID : GC07

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	TCX
Initial Calibration	WG156298-1	12/29/14	10:27	5.157	26.05	
Initial Calibration	WG156298-3	12/29/14	12:13	5.177	26.06	
Initial Calibration	WG156298-5	12/29/14	12:48	5.169	26.07	
Initial Calibration	WG156298-7	12/29/14	13:22	5.173	26.07	
Initial Calibration	WG156298-9	12/29/14	13:57	5.174	26.07	
Initial Calibration	WG156298-11	12/29/14	14:32	5.175	26.07	
Independent Source	WG156298-13	12/29/14	15:06			
Independent Source	WG156298-14	12/29/14	15:41			
Initial Calibration	WG156298-15	12/29/14	16:16			
Initial Calibration	WG156298-27	12/29/14	19:44			
Initial Calibration	WG156298-39	12/29/14	23:12			
Initial Calibration	WG156298-51	12/30/14	02:39			
Initial Calibration	WG156298-63	12/30/14	06:07			
Continuing Calibrati	WG156982-1	01/15/15	10:39	5.173	26.07	
Method Blank Sample	WG156929-1	01/15/15	12:28	5.187	26.07	
Laboratory Control S	WG156929-2	01/15/15	13:03	5.176	26.07	
Laboratory Control S	WG156929-3	01/15/15	13:37	5.176	26.07	
IDWGW-3178-011315	SI0230-2	01/15/15	15:56	5.171	26.07	
IDWGW-F0A37-011315	SI0230-3	01/15/15	16:31	5.174	26.07	
IDWGW-EG332-011315	SI0230-4	01/15/15	17:05	5.177	26.07	
Continuing Calibrati	WG156982-3	01/15/15	18:15	5.166	26.06	
Continuing Calibrati	WG157171-1	01/19/15	10:53	5.161	26.06	
Method Blank Sample	WG157001-1	01/19/15	12:45	5.181	26.07	
Laboratory Control S	WG157001-2	01/19/15	13:20	5.172	26.07	
Laboratory Control S	WG157001-3	01/19/15	13:55	5.174	26.07	
IDWS-0312-011315	SI0230-1	01/19/15	14:29	5.173	26.07	
Continuing Calibrati	WG157171-3	01/19/15	18:32	5.17	26.06	

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services **SDG :** SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, **Column ID :** B
Instrument ID : GC07

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	TCX
Initial Calibration	WG156298-2	12/29/14	10:27	5.385	26.98	
Initial Calibration	WG156298-4	12/29/14	12:13	5.372	26.98	
Initial Calibration	WG156298-6	12/29/14	12:48	5.387	26.99	
Initial Calibration	WG156298-8	12/29/14	13:22	5.392	27.00	
Initial Calibration	WG156298-10	12/29/14	13:57	5.395	27.00	
Initial Calibration	WG156298-12	12/29/14	14:32	5.395	27.00	
Independent Source	WG156298-13	12/29/14	15:06			
Independent Source	WG156298-14	12/29/14	15:41			
Initial Calibration	WG156298-16	12/29/14	16:16			
Initial Calibration	WG156298-28	12/29/14	19:44			
Initial Calibration	WG156298-40	12/29/14	23:12			
Initial Calibration	WG156298-52	12/30/14	02:39			
Initial Calibration	WG156298-64	12/30/14	06:07			
Continuing Calibrati	WG156982-2	01/15/15	10:39	5.384	26.98	
Method Blank Sample	WG156929-1	01/15/15	12:28	5.385	26.98	
Laboratory Control S	WG156929-2	01/15/15	13:03	5.387	26.98	
Laboratory Control S	WG156929-3	01/15/15	13:37	5.386	26.98	
IDWGW-3178-011315	SI0230-2	01/15/15	15:56	5.381	26.98	
IDWGW-F0A37-011315	SI0230-3	01/15/15	16:31	5.383	26.98	
IDWGW-EG332-011315	SI0230-4	01/15/15	17:05	5.385	26.98	
Continuing Calibrati	WG156982-4	01/15/15	18:15	5.377	26.97	
Continuing Calibrati	WG157171-2	01/19/15	10:53	5.37	26.96	
Method Blank Sample	WG157001-1	01/19/15	12:45	5.374	26.97	
Laboratory Control S	WG157001-2	01/19/15	13:20	5.38	26.97	
Laboratory Control S	WG157001-3	01/19/15	13:55	5.384	26.97	
IDWS-0312-011315	SI0230-1	01/19/15	14:29	5.381	26.97	
Continuing Calibrati	WG157171-4	01/19/15	18:32	5.38	26.96	

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-1
Client ID: IDWS-0312-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: 7IA285.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3540
Lab Prep Batch: WG157001

Analysis Date: 19-JAN-15
Analyst: JLP
Analysis Method: SW846 8082A
Matrix: SL
% Solids: 79.
Report Date: 23-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	11.	ug/Kgdrywt	1	17	21.	7.6	11.
Aroclor-1221	U	11.	ug/Kgdrywt	1	17	21.	9.9	11.
Aroclor-1232	U	12.	ug/Kgdrywt	1	17	21.	12.	12.
Aroclor-1242	U	11.	ug/Kgdrywt	1	17	21.	7.3	11.
Aroclor-1248	U	11.	ug/Kgdrywt	1	17	21.	7.7	11.
Aroclor-1254	U	11.	ug/Kgdrywt	1	17	21.	5.9	11.
Aroclor-1260	U	11.	ug/Kgdrywt	1	17	21.	7.6	11.
Tetrachloro-M-Xylene		86.6	%					
Decachlorobiphenyl		88.3	%					

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Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA285.D
Report Date: 20-Jan-2015 10:14

Katahdin Analytical Services

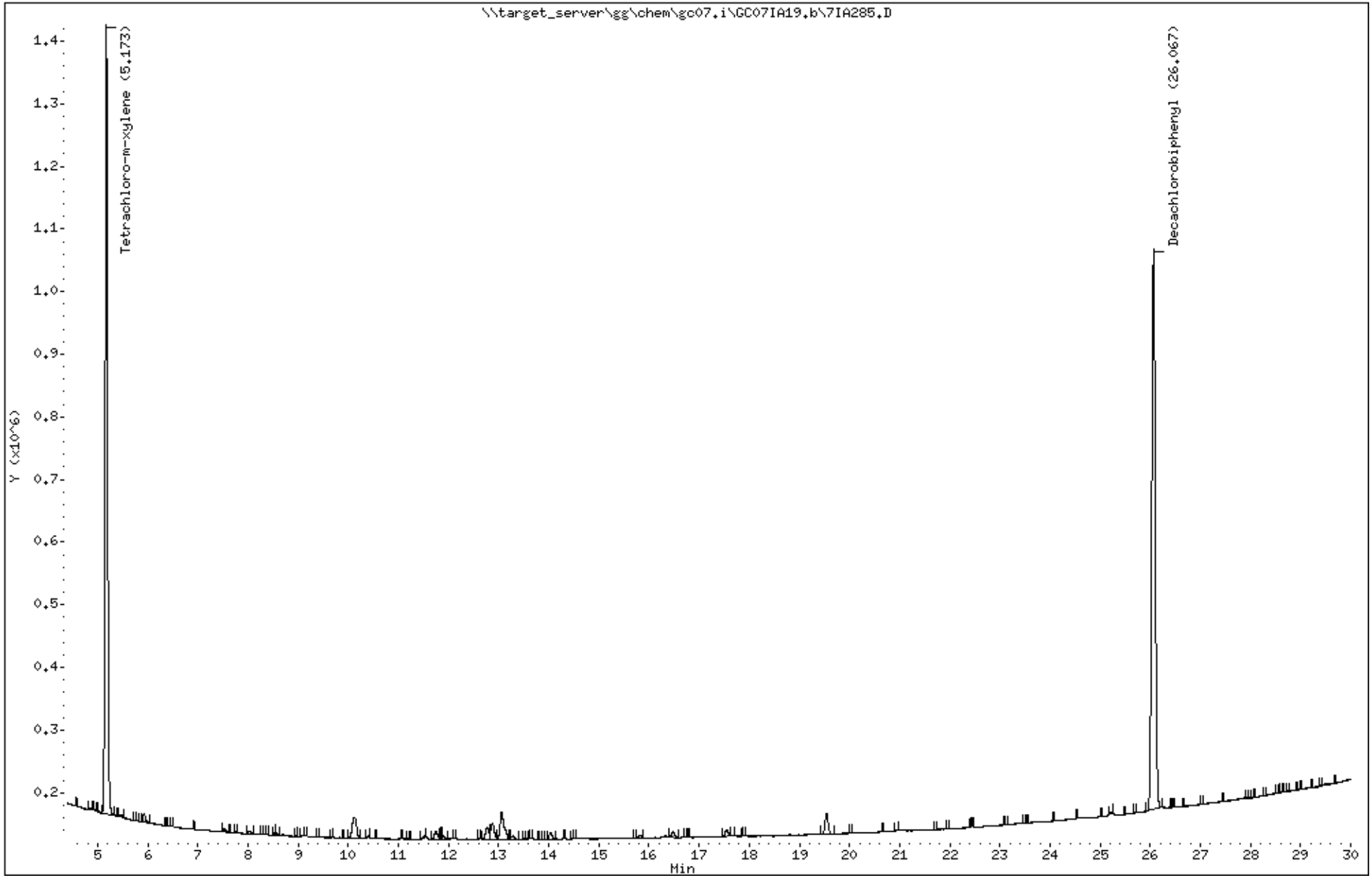
Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA285.D
Lab Smp Id: SI0230-1 Client Smp ID: IDWS-0312-011315
Inj Date : 19-JAN-2015 14:29
Operator : JLP Inst ID: gc07.i
Smp Info : SI0230-1
Misc Info : WG157171,WG157001,WG156298-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m
Meth Date : 20-Jan-2015 10:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	20.570	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.173	5.172	0.001	1259974	0.08645	36.3			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.066	26.058	0.008	895576	0.08771	36.8			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA285.D
Date : 19-JAN-2015 14:29
Client ID: IDWS-0312-011315
Instrument: gc07.i
Sample Info: SI0230-1
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA285.D
Report Date: 20-Jan-2015 10:14

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA285.D
Lab Smp Id: SI0230-1 Client Smp ID: IDWS-0312-011315
Inj Date : 19-JAN-2015 14:29
Operator : JLP Inst ID: gc07.i
Smp Info : SI0230-1
Misc Info : WG157171,WG157001,WG156298-2
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m\PCB078.m
Meth Date : 20-Jan-2015 10:04 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	20.570	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

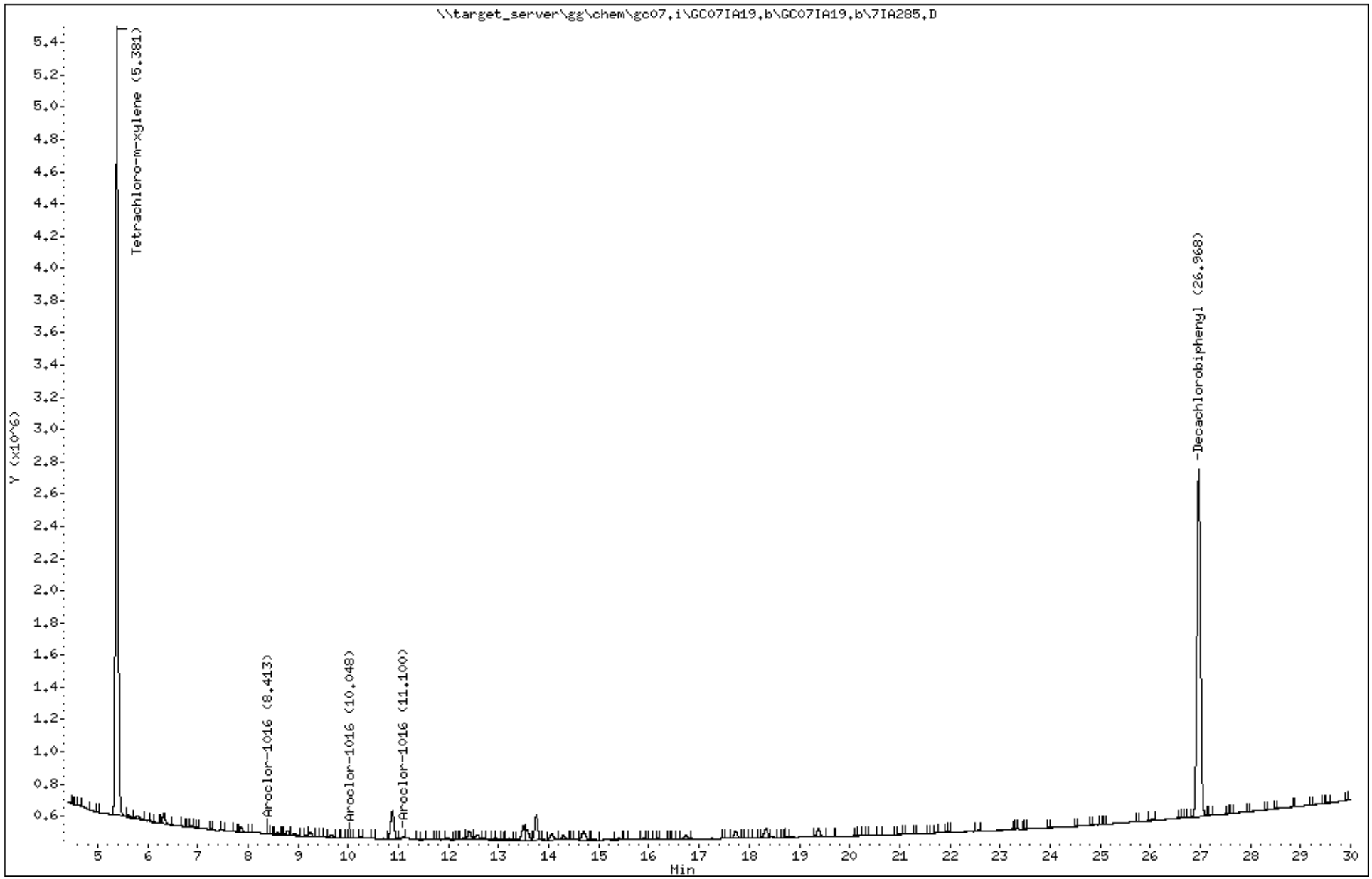
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.381	5.388	-0.007	4900158	0.08130	34.1			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.967	26.968	-0.001	2156422	0.08805	37.0			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA285.D
Date : 19-JAN-2015 14:29
Client ID: IDWS-0312-011315
Sample Info: SI0230-1

Instrument: gc07.i

Operator: JLP

Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-2
Client ID: IDWGW-3178-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: 7IA242.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 14-JAN-15
Extracted By: JMS
Extraction Method: SW846 3510
Lab Prep Batch: WG156929

Analysis Date: 15-JAN-15
Analyst: JLP
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 23-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.47	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.47	0.084	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.47	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.47	0.077	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.47	0.16	0.24
Tetrachloro-M-Xylene	*	38.5	%					
Decachlorobiphenyl	*	10.9	%					

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Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA242.D
Report Date: 16-Jan-2015 14:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA242.D
Lab Smp Id: SI0230-2 Client Smp ID: IDWGW-3178-011315
Inj Date : 15-JAN-2015 15:56
Operator : JLP Inst ID: gc07.i
Smp Info : SI0230-2
Misc Info : WG156982,WG156929,WG156298-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m
Meth Date : 16-Jan-2015 13:43 kasgc Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

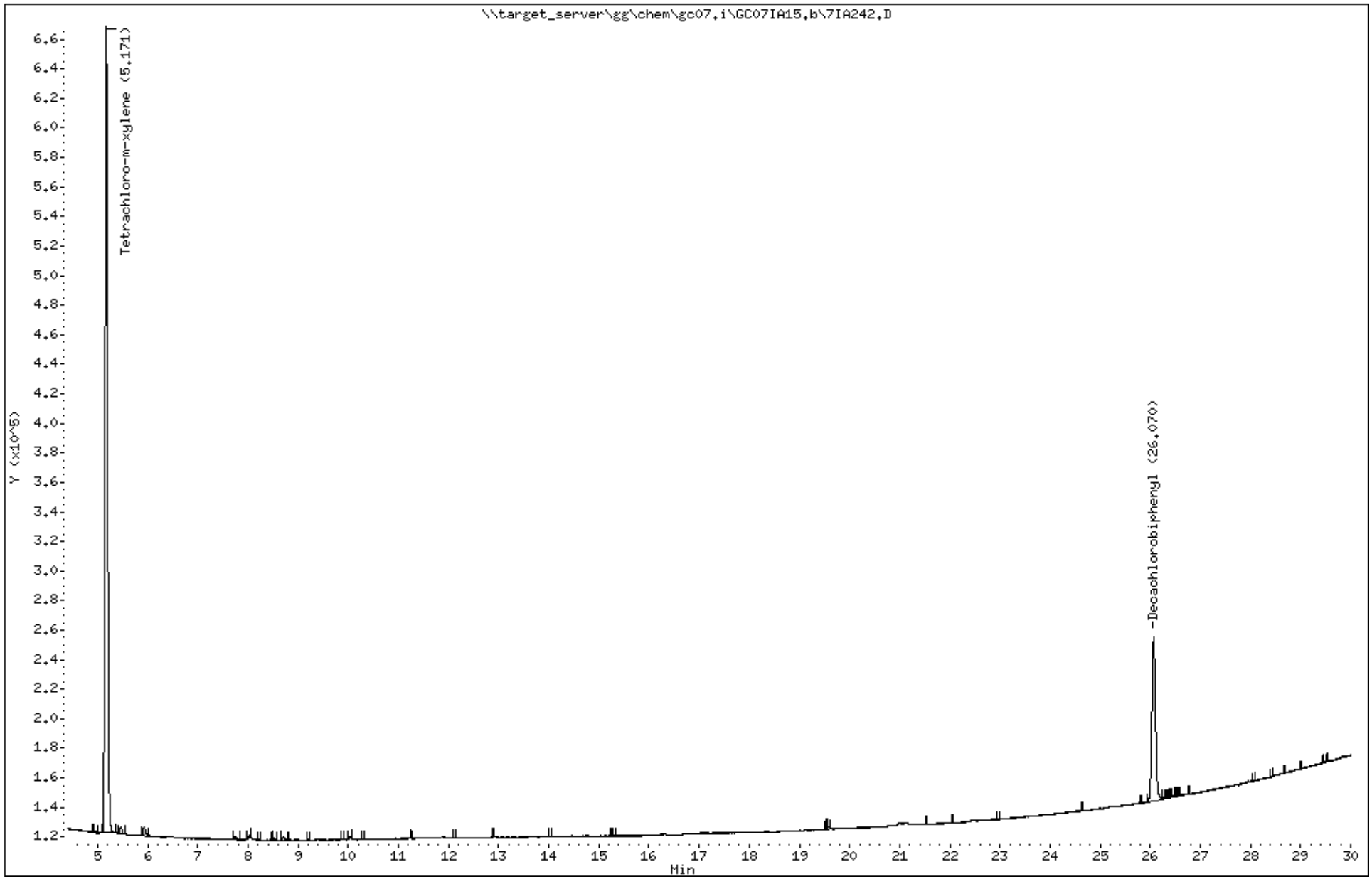
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.171	5.161	0.010	546135	0.03747	0.354		(aR)	
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.069	26.051	0.018	111392	0.01091	0.103		(aR)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA242.D
Date : 15-JAN-2015 15:56
Client ID: IDWGW-3178-011315
Instrument: gc07.i
Sample Info: SI0230-2
Purge Volume: 1.1
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA242.D
Report Date: 16-Jan-2015 14:25

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA242.D
Lab Smp Id: SI0230-2 Client Smp ID: IDWGW-3178-011315
Inj Date : 15-JAN-2015 15:56
Operator : JLP Inst ID: gc07.i
Smp Info : SI0230-2
Misc Info : WG156982,WG156929,WG156298-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m\PCB078.m
Meth Date : 16-Jan-2015 13:52 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

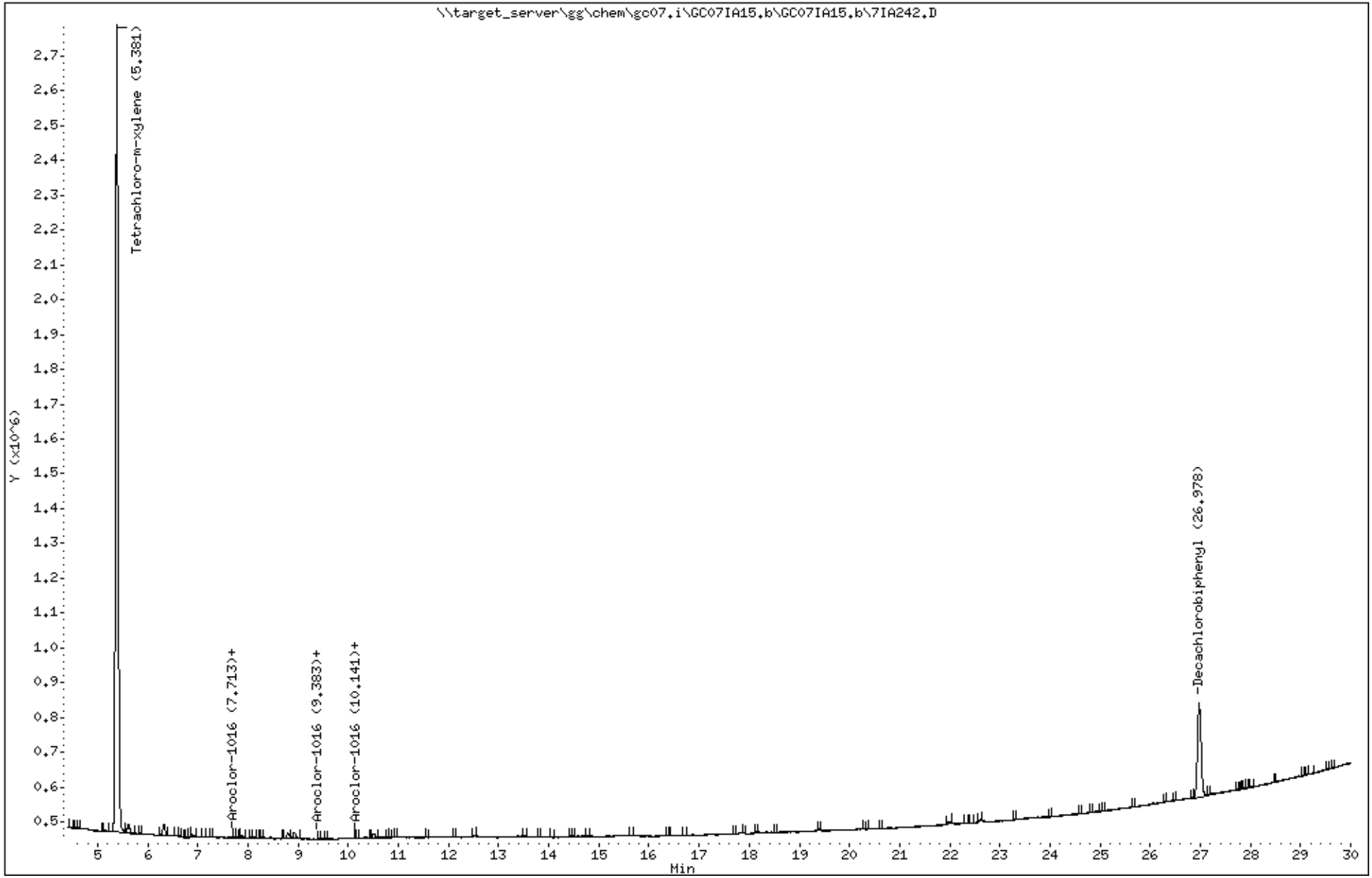
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.381	5.371	0.010	2318312	0.03846	0.363		(aR)	
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.977	26.957	0.020	267714	0.01093	0.103		(aR)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA242.D
Date : 15-JAN-2015 15:56
Client ID: IDWGW-3178-011315 Instrument: gc07.i
Sample Info: SI0230-2
Purge Volume: 1.1 Operator: JLP
Column phase: ZB-MultiResidue-2 Column diameter: 0.53



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-3
Client ID: IDWGW-F0A37-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: 7IA243.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 14-JAN-15
Extracted By: JMS
Extraction Method: SW846 3510
Lab Prep Batch: WG156929

Analysis Date: 15-JAN-15
Analyst: JLP
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 23-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.47	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.47	0.084	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.47	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.47	0.077	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.47	0.16	0.24
Tetrachloro-M-Xylene	*	27.5	%					
Decachlorobiphenyl	*	12.2	%					

600 Technology Way
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Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA243.D
Report Date: 16-Jan-2015 14:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA243.D
Lab Smp Id: SI0230-3 Client Smp ID: IDWGW-F0A37-011315
Inj Date : 15-JAN-2015 16:31
Operator : JLP Inst ID: gc07.i
Smp Info : SI0230-3
Misc Info : WG156982,WG156929,WG156298-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m
Meth Date : 16-Jan-2015 13:43 kasgc Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

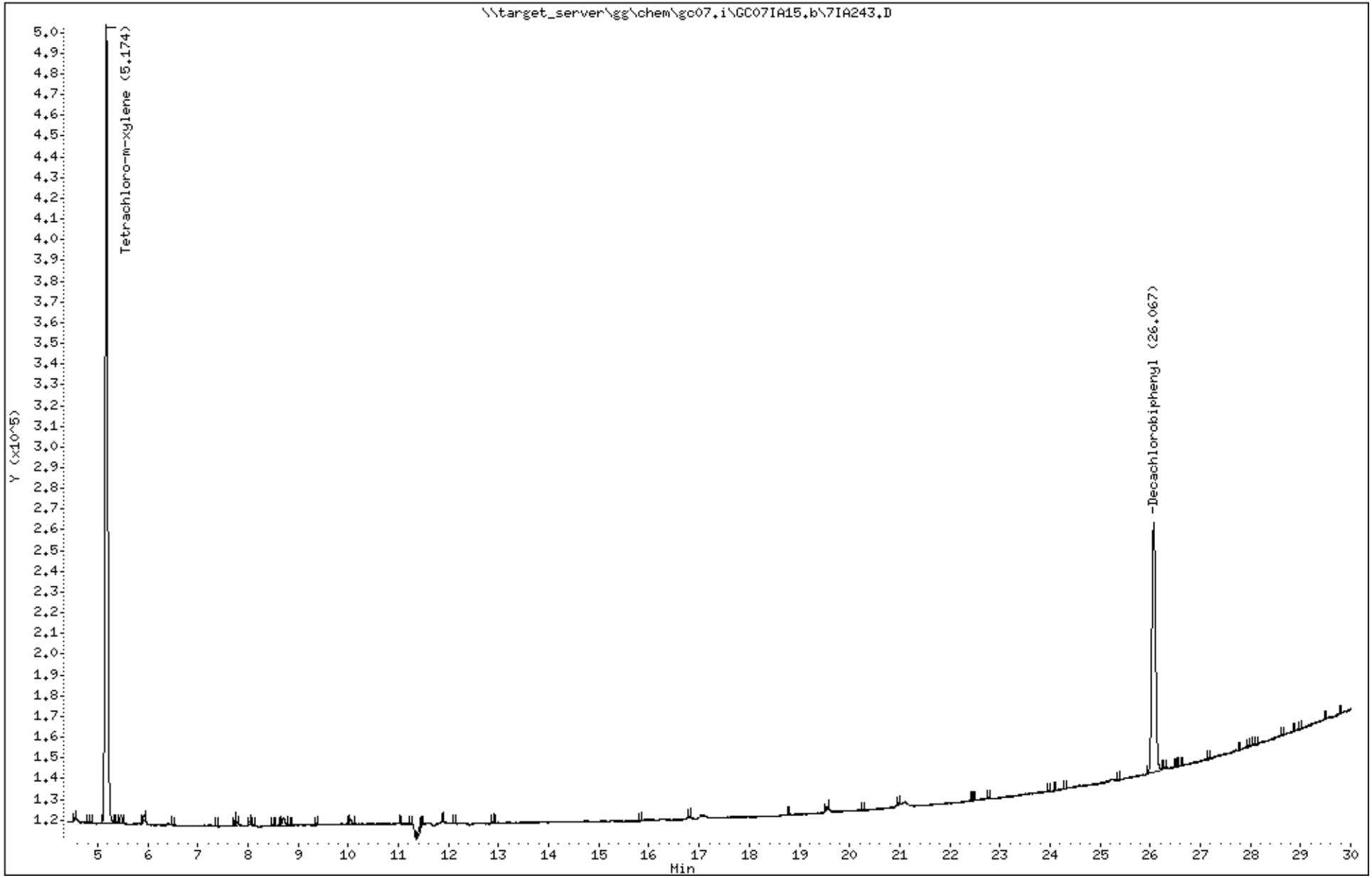
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.174	5.161	0.013	385417	0.02644	0.249		(aR)	
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.067	26.051	0.016	120686	0.01182	0.112		(aR)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA243.D
Date : 15-JAN-2015 16:31
Client ID: IDWGW-F0A37-011315
Instrument: gc07.i
Sample Info: SI0230-3
Purge Volume: 1.1
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA243.D
Report Date: 16-Jan-2015 14:25

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA243.D
Lab Smp Id: SI0230-3 Client Smp ID: IDWGW-F0A37-011315
Inj Date : 15-JAN-2015 16:31
Operator : JLP Inst ID: gc07.i
Smp Info : SI0230-3
Misc Info : WG156982,WG156929,WG156298-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m\PCB078.m
Meth Date : 16-Jan-2015 13:52 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

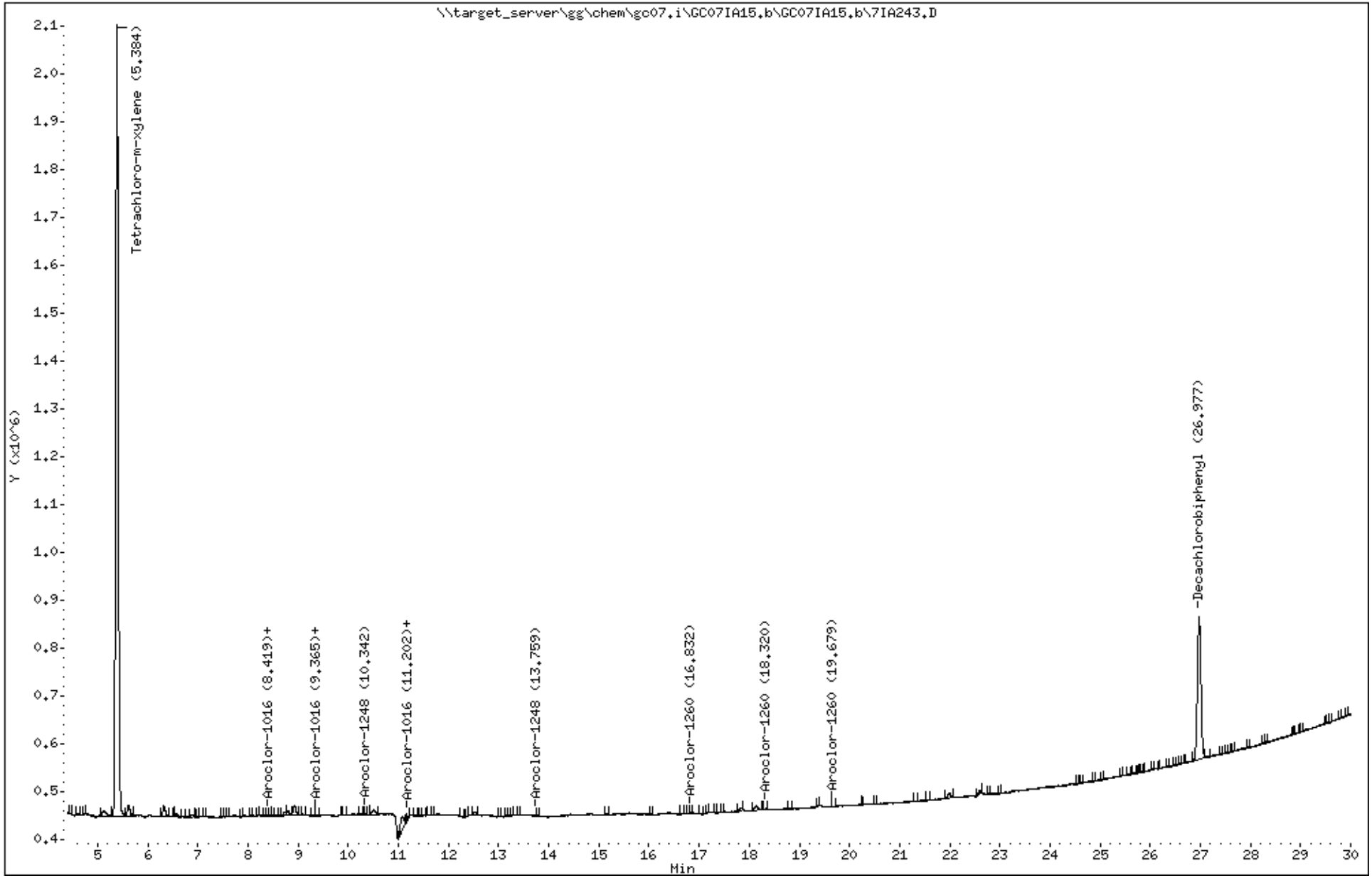
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.383	5.371	0.012	1653197	0.02743	0.259		(aR)	
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.977	26.957	0.020	299590	0.01223	0.115		(aR)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA243.D
Date : 15-JAN-2015 16:31
Client ID: IDWGW-F0A37-011315 Instrument: gc07.i
Sample Info: SI0230-3
Purge Volume: 1.1 Operator: JLP
Column phase: ZB-MultiResidue-2 Column diameter: 0.53



Katahdin Analytical Services 0000371

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-4
Client ID: IDWGW-EG332-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: 7IA244.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 14-JAN-15
Extracted By: JMS
Extraction Method: SW846 3510
Lab Prep Batch: WG156929

Analysis Date: 15-JAN-15
Analyst: JLP
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 23-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.47	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.47	0.084	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.47	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.47	0.077	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.47	0.16	0.24
Tetrachloro-M-Xylene		72.4	%					
Decachlorobiphenyl	*	21.6	%					

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Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA244.D
Report Date: 16-Jan-2015 14:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA244.D
Lab Smp Id: SI0230-4 Client Smp ID: IDWGW-EG332-011315
Inj Date : 15-JAN-2015 17:05
Operator : JLP Inst ID: gc07.i
Smp Info : SI0230-4
Misc Info : WG156982,WG156929,WG156298-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m
Meth Date : 16-Jan-2015 13:43 kasgc Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

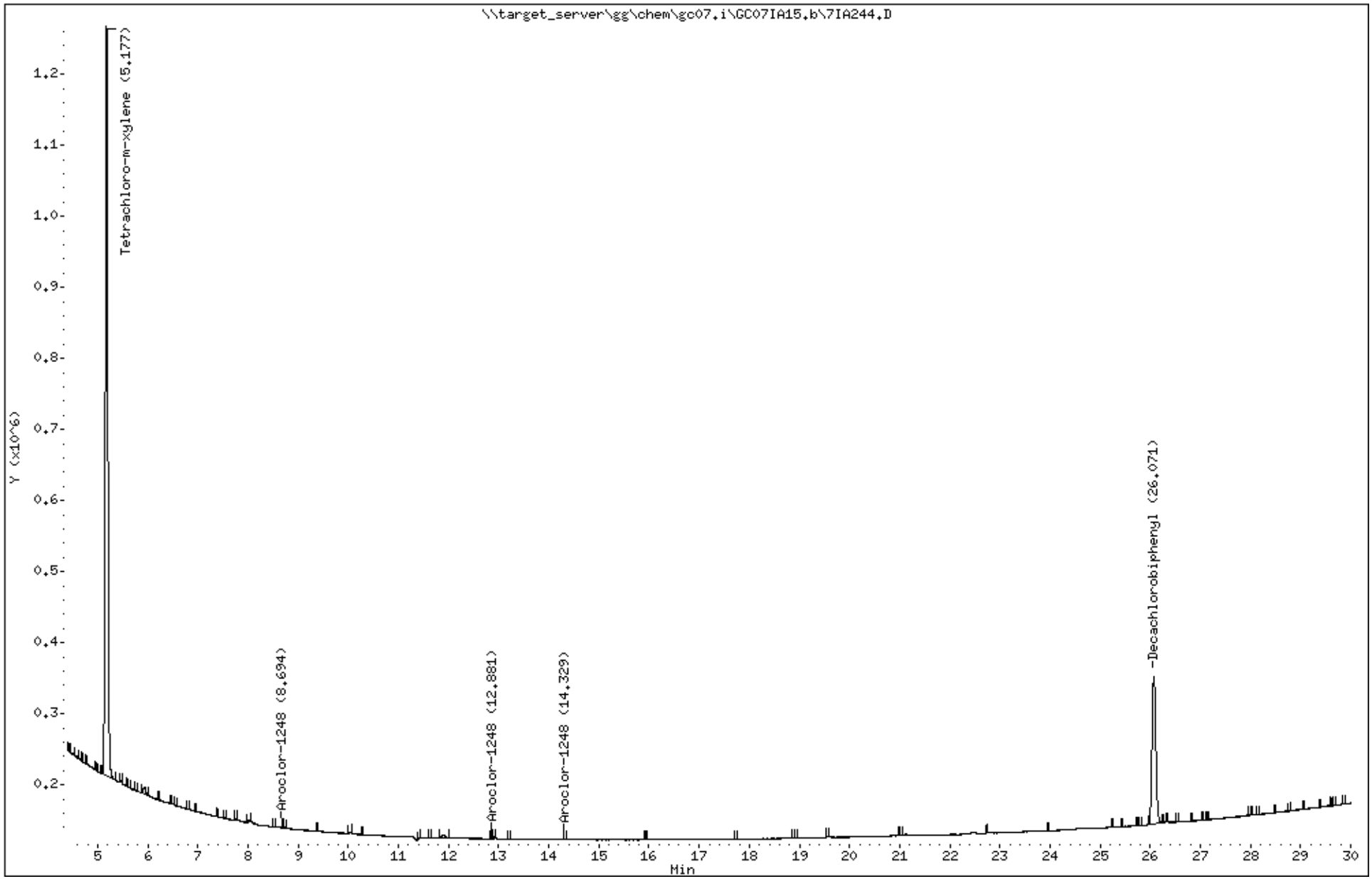
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.177	5.161	0.016	1055606	0.07243	0.683			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.070	26.051	0.019	207948	0.02037	0.192		(aR)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA244.D
Date : 15-JAN-2015 17:05
Client ID: IDWGW-EG332-011315
Instrument: gc07.i
Sample Info: SI0230-4
Purge Volume: 1.1
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA244.D
Report Date: 16-Jan-2015 14:25

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA244.D
Lab Smp Id: SI0230-4 Client Smp ID: IDWGW-EG332-011315
Inj Date : 15-JAN-2015 17:05
Operator : JLP Inst ID: gc07.i
Smp Info : SI0230-4
Misc Info : WG156982,WG156929,WG156298-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m\PCB078.m
Meth Date : 16-Jan-2015 13:52 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

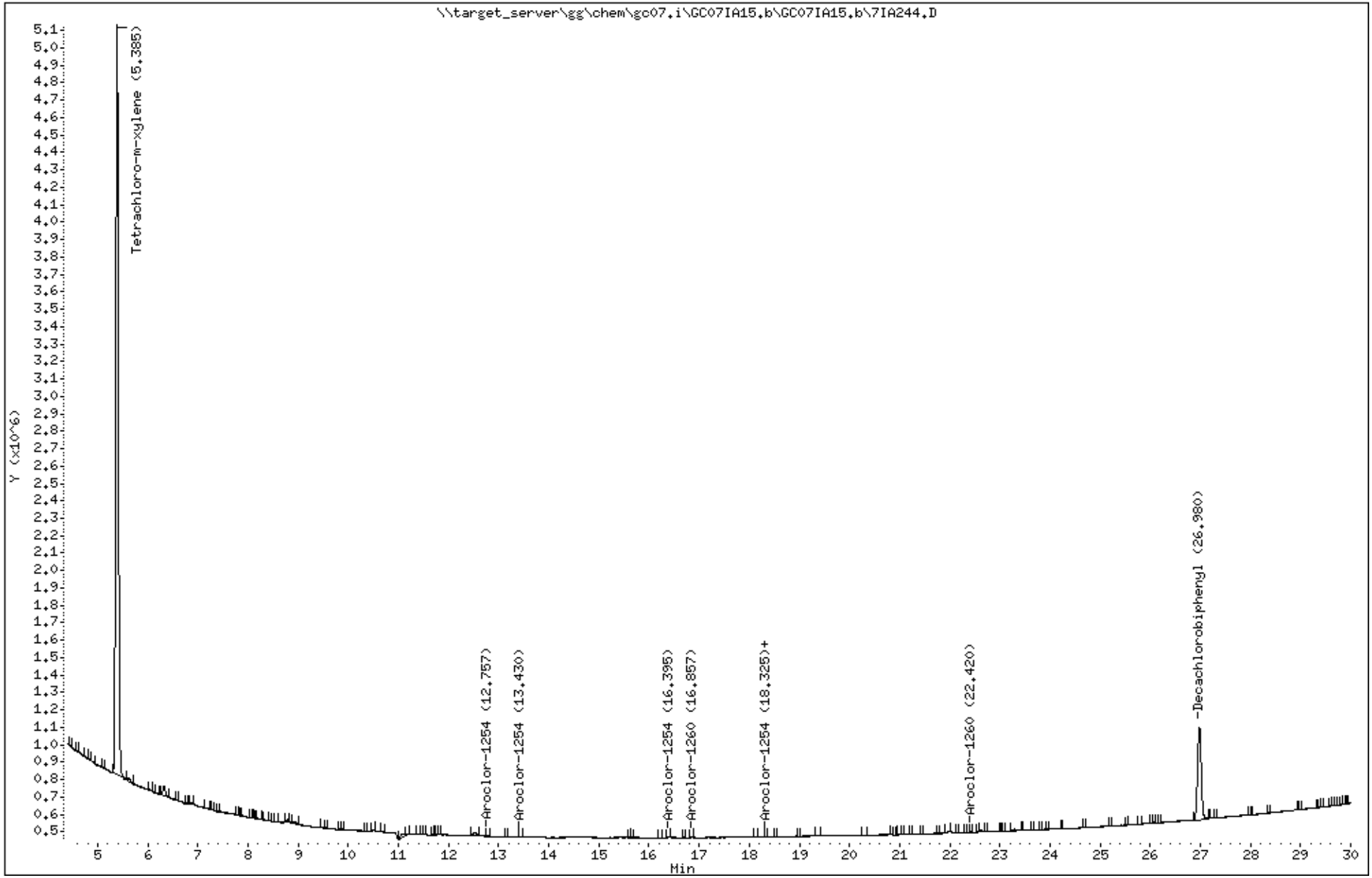
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.385	5.371	0.014	4308046	0.07147	0.674			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.980	26.957	0.023	528369	0.02157	0.204		(aR)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA244.D
Date : 15-JAN-2015 17:05
Client ID: IDWGW-EG332-011315 Instrument: gc07.i
Sample Info: SI0230-4
Purge Volume: 1.1 Operator: JLP
Column phase: ZB-MultiResidue-2 Column diameter: 0.53



Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GC07
Lab File IDs : 7HL407.D 7HL408.D 7HL409.D **Column ID:** A
7HL413.D 7HL410.D 7HL411.D **Calibration Date(s):** 29-DEC-14 10:27
30-DEC-14 10:10

	Level 1 0.050000(	Level 2 0.100000(	Level 3 0.250000(	Level 4 1.0000	Level 5 2.5000	Level 6 10.0000	Crv New	b	m1	m2	%RSD	Max %RSD	
Aroclor-1221(2)	155100	138240	128464	125218	127428	116819	AVG		131878		10.07303	20.00000	O
Aroclor-1221(1)	60380	55890	53844	47451	48104	39336	AVG		50834		14.63829	20.00000	O
Aroclor-1221(3)	115040	100060	95292	89334	90999	78215	AVG		94823		12.97568	20.00000	O
Aroclor-1221(4)	45880	40580	41644	40360	43037	37275	AVG		41463		6.95290	20.00000	O
Aroclor-1232(1)	19432	29416	77244	271768	670526	2519408	LNR	-0.06544	251023		0.99979	0.99000	O
Aroclor-1232(5)	6626	10974	27010	108548	261002	980344	LNR	-0.06074	97761		0.99972	0.99000	O
Aroclor-1232(4)	6410	10461	26568	108355	270494	1087770	LNR	0.00307	108781		1.00000	0.99000	O
Aroclor-1232(3)	18059	28813	70715	264304	664092	2661404	LNR	-0.00759	265848		0.99999	0.99000	O
Aroclor-1232(2)	9988	15533	39387	148139	353535	1329855	LNR	-0.06936	132468		0.99976	0.99000	O
Aroclor-1242(1)	292680	287510	297312	270737	260256	252478	AVG		276829		6.64050	20.00000	O
Aroclor-1242(3)	525360	519520	522268	485305	498218	502410	AVG		508847		3.13865	20.00000	O
Aroclor-1242(4)	193680	198110	216880	204432	207866	215957	AVG		206154		4.53669	20.00000	O
Aroclor-1242(2)	230420	230610	245764	224083	218414	218531	AVG		227970		4.49532	20.00000	O
Aroclor-1242(5)	219760	224100	237768	216870	213238	215824	AVG		221260		4.02225	20.00000	O
Aroclor-1016(2)	270280	264710	278656	254777	259351	250350	AVG		263021		3.95844	20.00000	O
Aroclor-1016(4)	234340	232190	247516	226954	243584	249468	AVG		239009		3.81777	20.00000	O
Aroclor-1016(5)	254700	252680	267400	235028	249283	251509	AVG		251767		4.12873	20.00000	O
Aroclor-1016(1)	333780	335740	342832	306804	306898	298246	AVG		320717		5.87458	20.00000	O
Aroclor-1016(3)	612020	610910	601652	555845	582534	582373	AVG		590889		3.65615	20.00000	O
Aroclor-1248(1)	365360	327490	320464	294706	332980	291682	AVG		322114		8.44197	20.00000	O
Aroclor-1248(5)	201620	198880	213672	210695	251020	222329	AVG		216369		8.76693	20.00000	O
Aroclor-1248(3)	393620	391860	395640	376789	440790	372900	AVG		395267		6.12283	20.00000	O
Aroclor-1248(4)	222100	227900	236228	245357	285645	262987	AVG		246703		9.68100	20.00000	O
Aroclor-1248(2)	367980	358030	363812	334142	379256	324512	AVG		354622		5.92499	20.00000	O
Aroclor-1254(5)	448780	488690	485820	522974	554467	609956	AVG		518448		11.07873	20.00000	O
Aroclor-1254(4)	435260	454260	461272	471894	461460	489892	AVG		462340		3.93021	20.00000	O
Aroclor-1254(2)	512280	543440	520356	496987	503727	521710	AVG		516417		3.15755	20.00000	O
Aroclor-1254(3)	355920	387680	400232	453969	475484	523731	AVG		432836		14.44491	20.00000	O
Aroclor-1254(1)	485560	481520	463068	444344	446980	457008	AVG		463080		3.73091	20.00000	O
Aroclor-1260(1)	504020	517330	516588	463166	494172	520041	AVG		502553		4.30918	20.00000	O
Aroclor-1260(2)	816520	788560	770656	721875	782198	787544	AVG		777892		4.02757	20.00000	O
Aroclor-1260(3)	641540	629230	621132	645735	694761	735299	AVG		661283		6.71876	20.00000	O
Aroclor-1260(5)	642040	571820	552740	590048	638272	671424	AVG		611057		7.57989	20.00000	O
Aroclor-1260(4)	402640	407420	421960	388324	431503	439918	AVG		415294		4.64801	20.00000	O
Tetrachloro-m-xylene	15087000	13219000	14420600	14562350	14976220	15180790	AVG		14574327		4.99783	20.00000	
Decachlorobiphenyl	11890000	9940500	10247200	9821550	9621020	9740535	AVG		10210134		8.32748	20.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N
Instrument ID: GC07
Lab File IDs : 7HL407.D 7HL408.D 7HL409.D 7HL413.D 7HL410.D 7HL411.D
Column ID: A
Calibration Date(s): 29-DEC-14 10:27
30-DEC-14 10:10

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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sales@katahdinlab.com

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI0230

Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GC07

Lab File IDs : 7HL407.D 7HL408.D 7HL409.D **Column ID:** B
7HL413.D 7HL410.D 7HL411.D **Calibration Date(s):** 29-DEC-14 10:27
30-DEC-14 10:10

	0.050000(Level 1	0.100000(Level 2	0.250000(Level 3	1.0000 Level 4	2.5000 Level 5	10.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Aroclor-1221(3)	511360	442880	416692	359933	354064	288517	AVG		395574		19.7585[illegible]	20.00000	O
Aroclor-1221(1)	202460	173550	168140	152419	145938	115143	AVG		159608		18.4145[illegible]	20.00000	O
Aroclor-1221(4)	240060	208430	184964	177296	170587	144418	AVG		187626		17.6014[illegible]	20.00000	O
Aroclor-1221(2)	724640	642430	601600	530950	526443	442610	AVG		578112		17.1959[illegible]	20.00000	O
Aroclor-1232(5)	28962	47232	115141	410454	958576	3507332	LNR	-0.10617	348607		0.99948	0.99000	O
Aroclor-1232(2)	42058	66098	159367	555475	1300281	4527369	LNR	-0.14954	449453		0.99872	0.99000	O
Aroclor-1232(1)	85364	133979	314677	1102206	2556463	8803648	LNR	-0.16316	873471		0.99848	0.99000	O
Aroclor-1232(4)	36401	56446	140992	505261	1200552	4460160	LNR	-0.08703	443748		0.99967	0.99000	O
Aroclor-1232(3)	71574	115323	280231	1006587	2435313	8972362	LNR	-0.08735	893045		0.99960	0.99000	O
Aroclor-1016(4)	1090940	1133110	1097032	943726	1002874	957832	AVG		1037586		7.69581	20.00000	O
Aroclor-1016(2)	1106480	1116980	1089908	876963	941444	861001	AVG		998796		11.9294[illegible]	20.00000	O
Aroclor-1016(5)	881060	959650	931288	813489	842615	816181	AVG		874047		6.98882	20.00000	O
Aroclor-1016(3)	2290020	2217960	2184352	1865659	1999366	1865015	AVG		2070395		8.96194	20.00000	O
Aroclor-1016(1)	1266260	1257620	1230532	1060180	1052768	951369	AVG		1136455		11.6376[illegible]	20.00000	O
Aroclor-1242(5)	867240	904920	893804	772293	763678	727536	AVG		821579		9.24933	20.00000	O
Aroclor-1242(4)	996280	1038520	1009356	901531	874425	839068	AVG		943197		8.68992	20.00000	O
Aroclor-1242(3)	2061420	2014320	1961188	1737094	1764797	1621412	AVG		1860038		9.48772	20.00000	O
Aroclor-1242(1)	1139400	1169410	1113508	968436	921674	825307	AVG		1022956		13.5103[illegible]	20.00000	O
Aroclor-1242(2)	929440	994450	970956	852570	825681	751702	AVG		887466		10.5276[illegible]	20.00000	O
Aroclor-1248(3)	1595400	1601600	1474756	1373572	1507722	1218874	AVG		1461987		9.98109	20.00000	O
Aroclor-1248(2)	1410020	1407030	1305280	1213722	1333948	1051854	AVG		1286976		10.5824[illegible]	20.00000	O
Aroclor-1248(1)	1266400	1244780	1194276	1101353	1219493	982359	AVG		1168110		9.20631	20.00000	O
Aroclor-1248(5)	825580	839100	818816	762984	868146	705194	AVG		803303		7.35921	20.00000	O
Aroclor-1248(4)	1057680	1051490	1005052	956001	1081521	890638	AVG		1007064		7.19433	20.00000	O
Aroclor-1254(4)	1809880	1824760	1831356	1758841	1774815	1699008	AVG		1783110		2.80520	20.00000	O
Aroclor-1254(5)	1831960	1919730	1891376	1837360	1791764	1776347	AVG		1841423		3.01720	20.00000	O
Aroclor-1254(1)	1743320	1704360	1639852	1466999	1469999	1418099	AVG		1573772		8.83067	20.00000	O
Aroclor-1254(2)	2052140	2056370	1905292	1768903	1730629	1648216	AVG		1860258		9.23032	20.00000	O
Aroclor-1254(3)	1504040	1504190	1463932	1360980	1364334	1323620	AVG		1420183		5.62882	20.00000	O
Aroclor-1260(3)	2102100	2001410	1944872	1824922	1889772	1869412	AVG		1938748		5.19960	20.00000	O
Aroclor-1260(2)	2153880	2118320	2042232	1845161	1953987	1900084	AVG		2002277		6.13738	20.00000	O
Aroclor-1260(5)	1808060	1853040	1884460	1766071	1878024	1808812	AVG		1833078		2.53110	20.00000	O
Aroclor-1260(4)	1350380	1370030	1343724	1216416	1323772	1279150	AVG		1313912		4.32936	20.00000	O
Aroclor-1260(1)	1726360	1688060	1640556	1471555	1539645	1509882	AVG		1596010		6.48320	20.00000	O
Tetrachloro-m-xylene	68980000	61157000	61723400	55516150	57457420	56820760	AVG		60275788		8.16713	20.00000	
Decachlorobiphenyl	28817000	24597000	24093400	22711050	23543080	23182000	AVG		24490588		9.06873	20.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N
Instrument ID: GC07
Lab File IDs : 7HL407.D 7HL408.D 7HL409.D 7HL413.D 7HL410.D 7HL411.D
Column ID: B
Calibration Date(s): 29-DEC-14 10:27
30-DEC-14 10:10

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Report Date: 05-Jan-2015 14:11

Calibration History

Method : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Start Cal Date: 29-DEC-2014 10:27
End Cal Date : 30-DEC-2014 10:10
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
30-DEC-2014 06:42	AR1232	7HL407.D
30-DEC-2014 03:14	AR1221	7HL401.D
29-DEC-2014 23:46	AR1254	7HL395.D
29-DEC-2014 20:18	AR1248	7HL389.D
29-DEC-2014 16:50	AR1242	7HL383.D
29-DEC-2014 12:13	AR1660	7HL375.D
Cal Level: 2 , Cal Amount: 0.10000		
30-DEC-2014 07:17	AR1232	7HL408.D
30-DEC-2014 03:49	AR1221	7HL402.D
30-DEC-2014 00:21	AR1254	7HL396.D
29-DEC-2014 20:53	AR1248	7HL390.D
29-DEC-2014 17:25	AR1242	7HL384.D
29-DEC-2014 12:48	AR1660	7HL376.D
Cal Level: 3 , Cal Amount: 0.25000		
30-DEC-2014 07:51	AR1232	7HL409.D
30-DEC-2014 04:23	AR1221	7HL403.D
30-DEC-2014 00:56	AR1254	7HL397.D
29-DEC-2014 21:28	AR1248	7HL391.D
29-DEC-2014 18:00	AR1242	7HL385.D
29-DEC-2014 13:22	AR1660	7HL377.D
Cal Level: 4 , Cal Amount: 1.00000		
30-DEC-2014 10:10	AR1268	7HL413.D
30-DEC-2014 09:35	AR1262	7HL412.D
30-DEC-2014 06:07	AR1232	7HL406.D
30-DEC-2014 02:39	AR1221	7HL400.D
29-DEC-2014 23:12	AR1254	7HL394.D
29-DEC-2014 19:44	AR1248	7HL388.D
29-DEC-2014 16:16	AR1242	7HL382.D
29-DEC-2014 10:27	AR1660	7HL374.D
Cal Level: 5 , Cal Amount: 2.50000		
30-DEC-2014 08:26	AR1232	7HL410.D
30-DEC-2014 04:58	AR1221	7HL404.D
30-DEC-2014 01:30	AR1254	7HL398.D

29-DEC-2014 22:02	AR1248	7HL392.D
29-DEC-2014 18:34	AR1242	7HL386.D
29-DEC-2014 13:57	AR1660	7HL378.D

Cal Level: 6 , Cal Amount: 10.00000		
30-DEC-2014 09:01	AR1232	7HL411.D
30-DEC-2014 05:33	AR1221	7HL405.D
30-DEC-2014 02:05	AR1254	7HL399.D
29-DEC-2014 22:37	AR1248	7HL393.D
29-DEC-2014 19:09	AR1242	7HL387.D
29-DEC-2014 14:32	AR1660	7HL379.D

Continuing Calibration
Ccal Level Mode: BY SAMPLE

30-DEC-2014 10:10	AR1268	7HL413.D
30-DEC-2014 09:35	AR1262	7HL412.D
30-DEC-2014 06:07	AR1232	7HL406.D
30-DEC-2014 02:39	AR1221	7HL400.D
29-DEC-2014 23:12	AR1254	7HL394.D
29-DEC-2014 19:44	AR1248	7HL388.D
29-DEC-2014 16:16	AR1242	7HL382.D
29-DEC-2014 10:27	AR1660	7HL374.D

Report Date: 05-Jan-2015 14:12

Calibration History

Method : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Start Cal Date: 29-DEC-2014 10:27
End Cal Date : 30-DEC-2014 10:10
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
30-DEC-2014 06:42	AR1232	7HL407.D
30-DEC-2014 03:14	AR1221	7HL401.D
29-DEC-2014 23:46	AR1254	7HL395.D
29-DEC-2014 20:18	AR1248	7HL389.D
29-DEC-2014 16:50	AR1242	7HL383.D
29-DEC-2014 12:13	AR1660	7HL375.D
Cal Level: 2 , Cal Amount: 0.10000		
30-DEC-2014 07:17	AR1232	7HL408.D
30-DEC-2014 03:49	AR1221	7HL402.D
30-DEC-2014 00:21	AR1254	7HL396.D
29-DEC-2014 20:53	AR1248	7HL390.D
29-DEC-2014 17:25	AR1242	7HL384.D
29-DEC-2014 12:48	AR1660	7HL376.D
Cal Level: 3 , Cal Amount: 0.25000		
30-DEC-2014 07:51	AR1232	7HL409.D
30-DEC-2014 04:23	AR1221	7HL403.D
30-DEC-2014 00:56	AR1254	7HL397.D
29-DEC-2014 21:28	AR1248	7HL391.D
29-DEC-2014 18:00	AR1242	7HL385.D
29-DEC-2014 13:22	AR1660	7HL377.D
Cal Level: 4 , Cal Amount: 1.00000		
30-DEC-2014 10:10	AR1268	7HL413.D
30-DEC-2014 09:35	AR1262	7HL412.D
30-DEC-2014 06:07	AR1232	7HL406.D
30-DEC-2014 02:39	AR1221	7HL400.D
29-DEC-2014 23:12	AR1254	7HL394.D
29-DEC-2014 19:44	AR1248	7HL388.D
29-DEC-2014 16:16	AR1242	7HL382.D
29-DEC-2014 10:27	AR1660	7HL374.D
Cal Level: 5 , Cal Amount: 2.50000		
30-DEC-2014 08:26	AR1232	7HL410.D
30-DEC-2014 04:58	AR1221	7HL404.D
30-DEC-2014 01:30	AR1254	7HL398.D

29-DEC-2014 22:02	AR1248	7HL392.D
29-DEC-2014 18:34	AR1242	7HL386.D
29-DEC-2014 13:57	AR1660	7HL378.D

Cal Level: 6 , Cal Amount: 10.00000		
30-DEC-2014 09:01	AR1232	7HL411.D
30-DEC-2014 05:33	AR1221	7HL405.D
30-DEC-2014 02:05	AR1254	7HL399.D
29-DEC-2014 22:37	AR1248	7HL393.D
29-DEC-2014 19:09	AR1242	7HL387.D
29-DEC-2014 14:32	AR1660	7HL379.D

Continuing Calibration
Ccal Level Mode: BY SAMPLE

30-DEC-2014 10:10	AR1268	7HL413.D
30-DEC-2014 09:35	AR1262	7HL412.D
30-DEC-2014 06:07	AR1232	7HL406.D
30-DEC-2014 02:39	AR1221	7HL400.D
29-DEC-2014 23:12	AR1254	7HL394.D
29-DEC-2014 19:44	AR1248	7HL388.D
29-DEC-2014 16:16	AR1242	7HL382.D
29-DEC-2014 10:27	AR1660	7HL374.D

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL380.D
Report Date: 05-Jan-2015 14:09

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa01504
Sample Matrix: SOLID Fraction: PCB
Lab Smp Id: WG156298-13
Level: LOW Operator: JLP
Data Type: GC MULTI COMP SampleType: LCS
SpikeList File: 1016ind.spk Quant Type: ESTD
Sublist File: AR1016.sub
Method File: \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Misc Info: WG156298,WG156298,WG156298-1,TH0797-1

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
6 Aroclor-1016	1.00	1.04	104.00	80-120

Data File: 7HL380.D
Report Date: 05-Jan-2015 14:08

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa01504
Sample Matrix: SOLID Fraction: PCB
Lab Smp Id: WG156298-13
Level: LOW Operator: JLP
Data Type: GC MULTI COMP SampleType: LCS
SpikeList File: 1016ind.spk Quant Type: ESTD
Sublist File: AR1016.sub
Method File: \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Misc Info: WG156298,WG156298,WG156298-2,TH0797-1

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
5 Aroclor-1016	1.00	1.05	105.00	80-120

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL381.D
Report Date: 05-Jan-2015 14:09

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa01504
Sample Matrix: SOLID Fraction: PCB
Lab Smp Id: WG156298-14
Level: LOW Operator: JLP
Data Type: GC MULTI COMP SampleType: LCS
SpikeList File: 1260ind.spk Quant Type: ESTD
Sublist File: AR1260.sub
Method File: \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Misc Info: WG156298,WG156298,WG156298-1,TH0797-1

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
9 Aroclor-1260	1.00	1.06	106.00	80-120

Data File: 7HL381.D
Report Date: 05-Jan-2015 14:08

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa01504
Sample Matrix: SOLID Fraction: PCB
Lab Smp Id: WG156298-14
Level: LOW Operator: JLP
Data Type: GC MULTI COMP SampleType: LCS
SpikeList File: 1260ind.spk Quant Type: ESTD
Sublist File: AR1260.sub
Method File: \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Misc Info: WG156298,WG156298,WG156298-2,TH0797-1

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
9 Aroclor-1260	1.00	1.08	108.00	80-120

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL374.D
Report Date: 05-Jan-2015 13:57

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL374.D
Lab Smp Id: WG156298-1
Inj Date : 29-DEC-2014 10:27
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-1
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 2   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

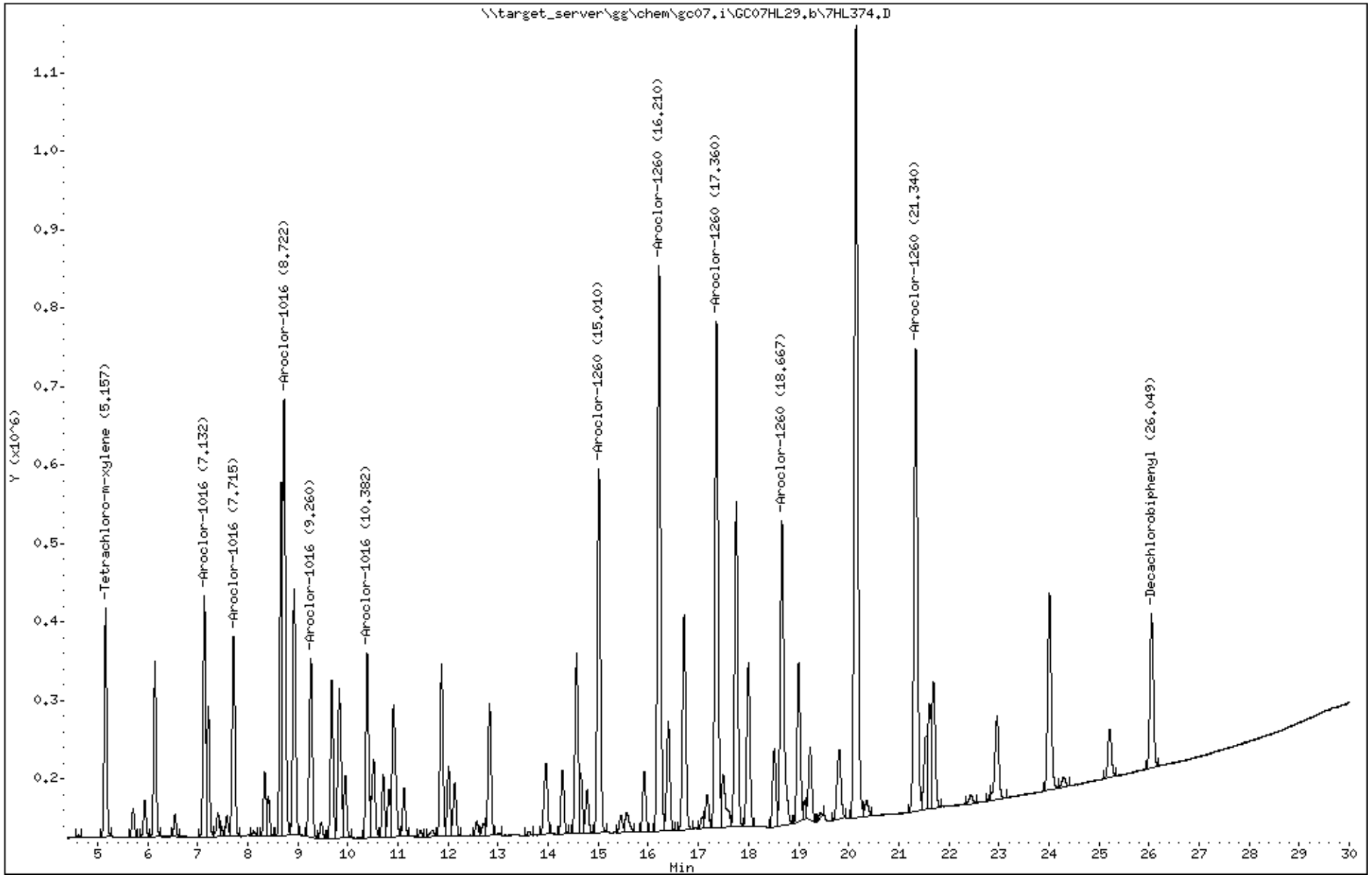
Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.157	5.157	0.000	291247	0.02000	0.0200			
6 Aroclor-1016						CAS #: 12674-11-2		
7.132	7.132	0.000	306804	1.00000	0.957	80.00- 120.00	100.00	
7.715	7.715	0.000	254777	1.00000	0.969	158.77- 238.15	83.04	
8.722	8.722	0.000	555845	1.00000	0.941	296.98- 445.46	181.17	
9.260	9.260	0.000	226954	1.00000	0.950	114.78- 172.16	73.97	
10.382	10.382	0.000	235028	1.00000	0.934	112.32- 168.48	76.61	
Average of Peak Amounts =					0.95020			
9 Aroclor-1260						CAS #: 11096-82-5		
15.010	15.010	0.000	463166	1.00000	0.922	80.00- 120.00	100.00	
16.210	16.210	0.000	721875	1.00000	0.928	94.69- 142.03	155.86	
17.360	17.360	0.000	645735	1.00000	0.976	89.28- 133.92	139.42	
18.667	18.667	0.000	388324	1.00000	0.935	72.48- 108.72	83.84	
21.340	21.340	0.000	590048	1.00000	0.966	0.00- 0.00	127.39	
Average of Peak Amounts =					0.94540			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.048	26.048	0.000	196431	0.02000	0.0192			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL374.D
Date : 29-DEC-2014 10:27
Client ID:
Sample Info: WG156298-1
Purge Volume: 1.0
Column phase: ZB-MultiResidue-1

Instrument: gc07.i
Operator: JLP
Column diameter: 0.53



Data File: 7HL374.D
Report Date: 05-Jan-2015 14:02

Katahdin Analytical Services

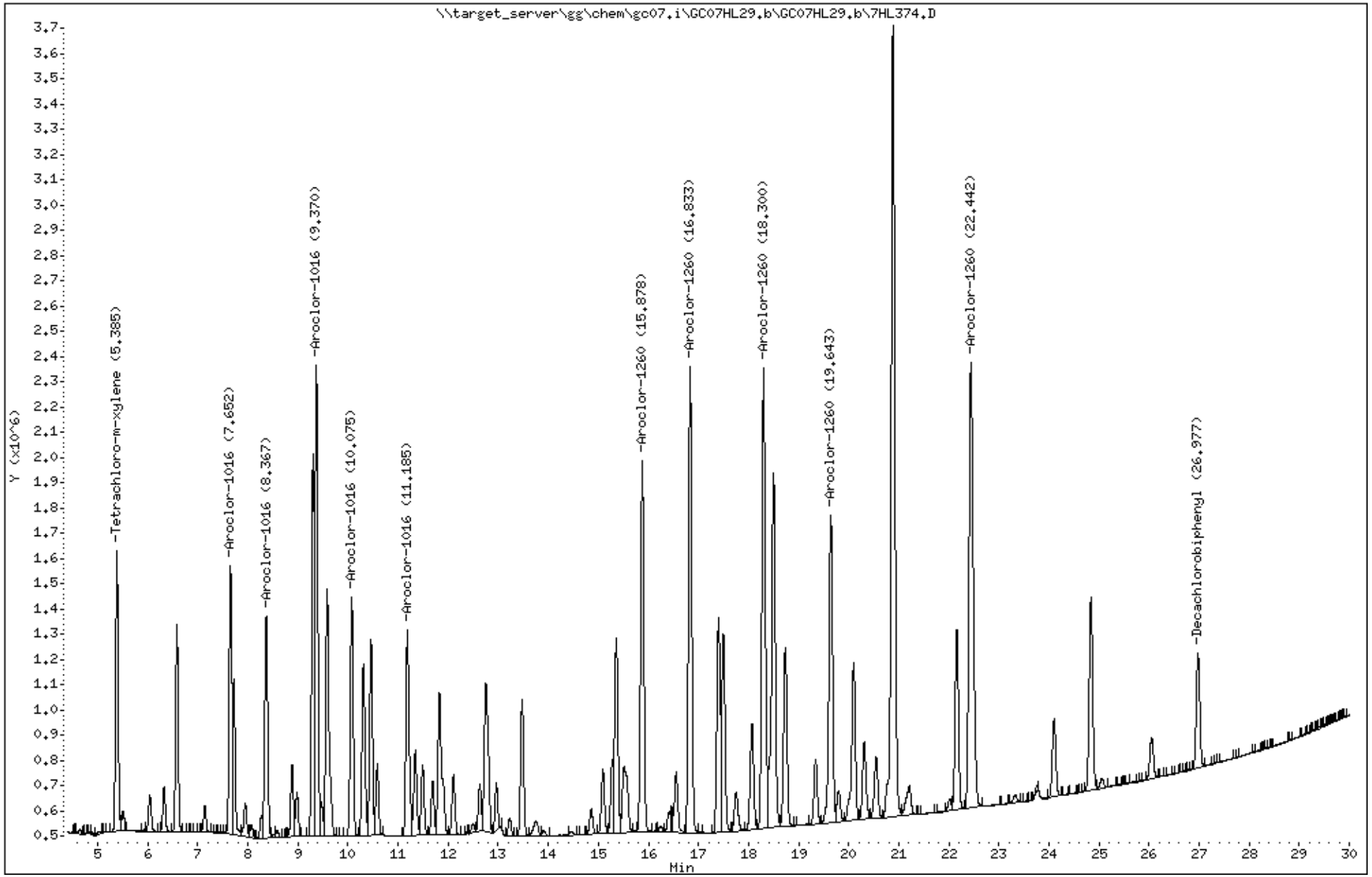
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL374.D
Lab Smp Id: WG156298-2
Inj Date : 29-DEC-2014 10:27
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-2
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 10:27   Cal File: 7HL374.D
Als bottle: 2   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.385	5.385	0.000	1110323	0.02000	0.0663			
5 Aroclor-1016						CAS #: 12674-11-2		
7.651	7.651	0.000	1060180	1.00000	1.00	80.00- 120.00	100.00	
8.366	8.366	0.000	876963	1.00000	4.92	158.77- 238.15	82.72	
9.370	9.370	0.000	1865659	1.00000	1.51	296.98- 445.46	175.98	
10.075	10.075	0.000	943726	1.00000	1.17	114.78- 172.17	89.02	
11.185	11.185	0.000	813489	1.00000	1.92	112.32- 168.48	76.73	
Average of Peak Amounts =					2.10400			
9 Aroclor-1260						CAS #: 11096-82-5		
15.878	15.878	0.000	1471555	1.00000	1.00	80.00- 120.00	100.00	
16.833	16.833	0.000	1845161	1.00000	1.00	94.69- 142.03	125.39	
18.300	18.300	0.000	1824922	1.00000	1.00	89.28- 133.92	124.01	
19.643	19.643	0.000	1216416	1.00000	1.00	72.48- 108.72	82.66	
22.441	22.441	0.000	1766071	1.00000	1.00	0.00- 0.00	120.01	
Average of Peak Amounts =					1.00000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.976	26.976	0.000	454221	0.02000	0.0837			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL374.D
Date : 29-DEC-2014 10:27
Client ID:
Instrument: gc07.i
Sample Info: WG156298-2
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL375.D
Report Date: 05-Jan-2015 13:57

Katahdin Analytical Services

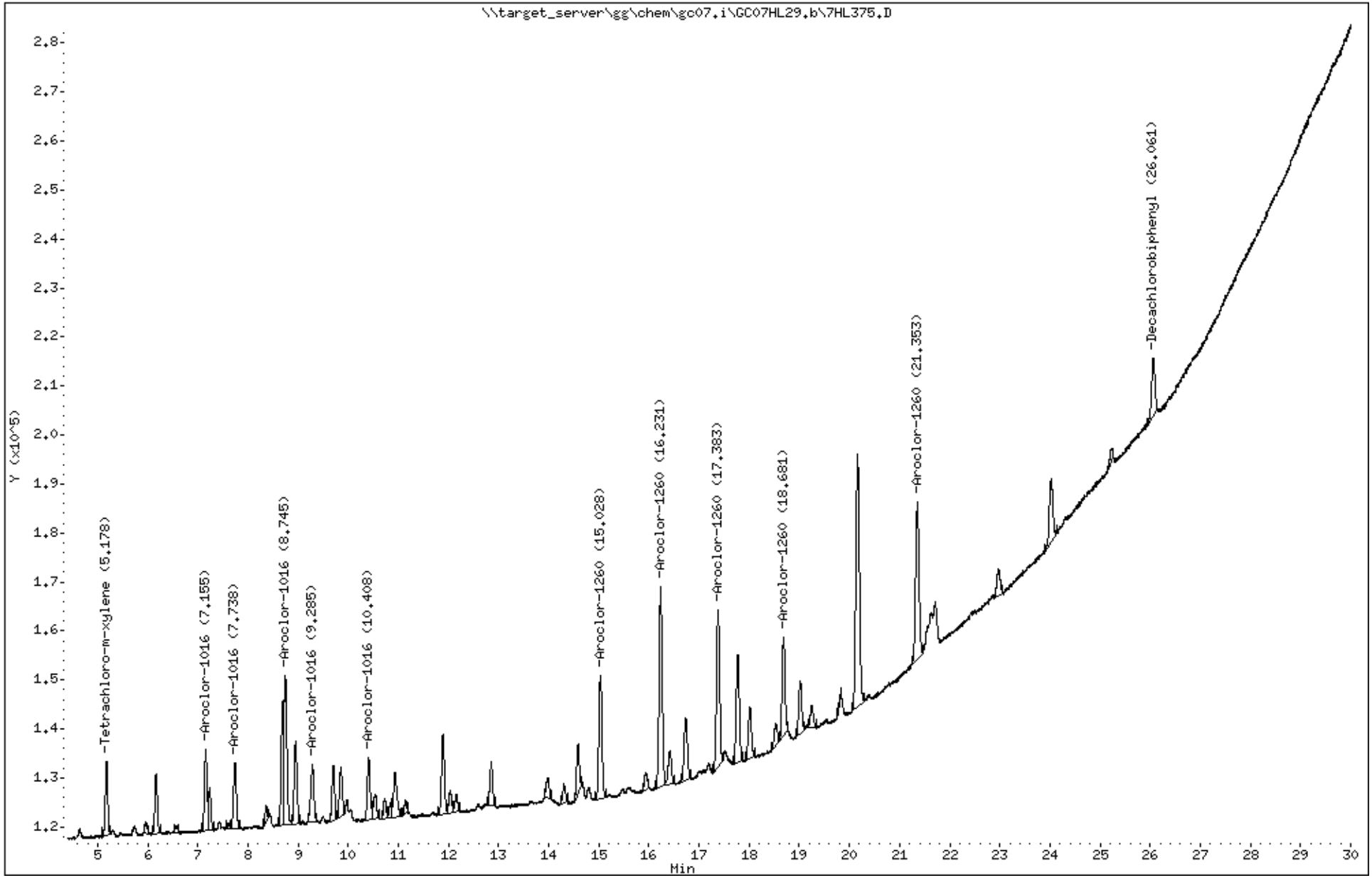
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL375.D
Lab Smp Id: WG156298-3
Inj Date : 29-DEC-2014 12:13
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-3
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 3   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.177	5.157	0.020	15087	0.00100	0.00104			
6 Aroclor-1016						CAS #: 12674-11-2		
7.154	7.132	0.022	16689	0.05000	0.0520	80.00- 120.00	100.00	
7.737	7.715	0.022	13514	0.05000	0.0514	158.77- 238.15	80.98	
8.744	8.722	0.022	30601	0.05000	0.0518	296.98- 445.46	183.36	
9.284	9.260	0.024	11717	0.05000	0.0490	114.78- 172.16	70.21	
10.407	10.382	0.025	12735	0.05000	0.0506	112.32- 168.48	76.31	
Average of Peak Amounts =				0.05096				
9 Aroclor-1260						CAS #: 11096-82-5		
15.027	15.010	0.017	25201	0.05000	0.0501	80.00- 120.00	100.00	
16.231	16.210	0.021	40826	0.05000	0.0525	94.69- 142.03	162.00	
17.382	17.360	0.022	32077	0.05000	0.0485	89.28- 133.92	127.28	
18.681	18.667	0.014	20132	0.05000	0.0485	72.48- 108.72	79.89	
21.352	21.340	0.012	32102	0.05000	0.0525	0.00- 0.00	127.38	
Average of Peak Amounts =				0.05042				
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.061	26.048	0.013	11890	0.00100	0.00116			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL375.D
Date : 29-DEC-2014 12:13
Client ID:
Instrument: gc07.i
Sample Info: WG156298-3
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7HL375.D
Report Date: 05-Jan-2015 14:02

Katahdin Analytical Services

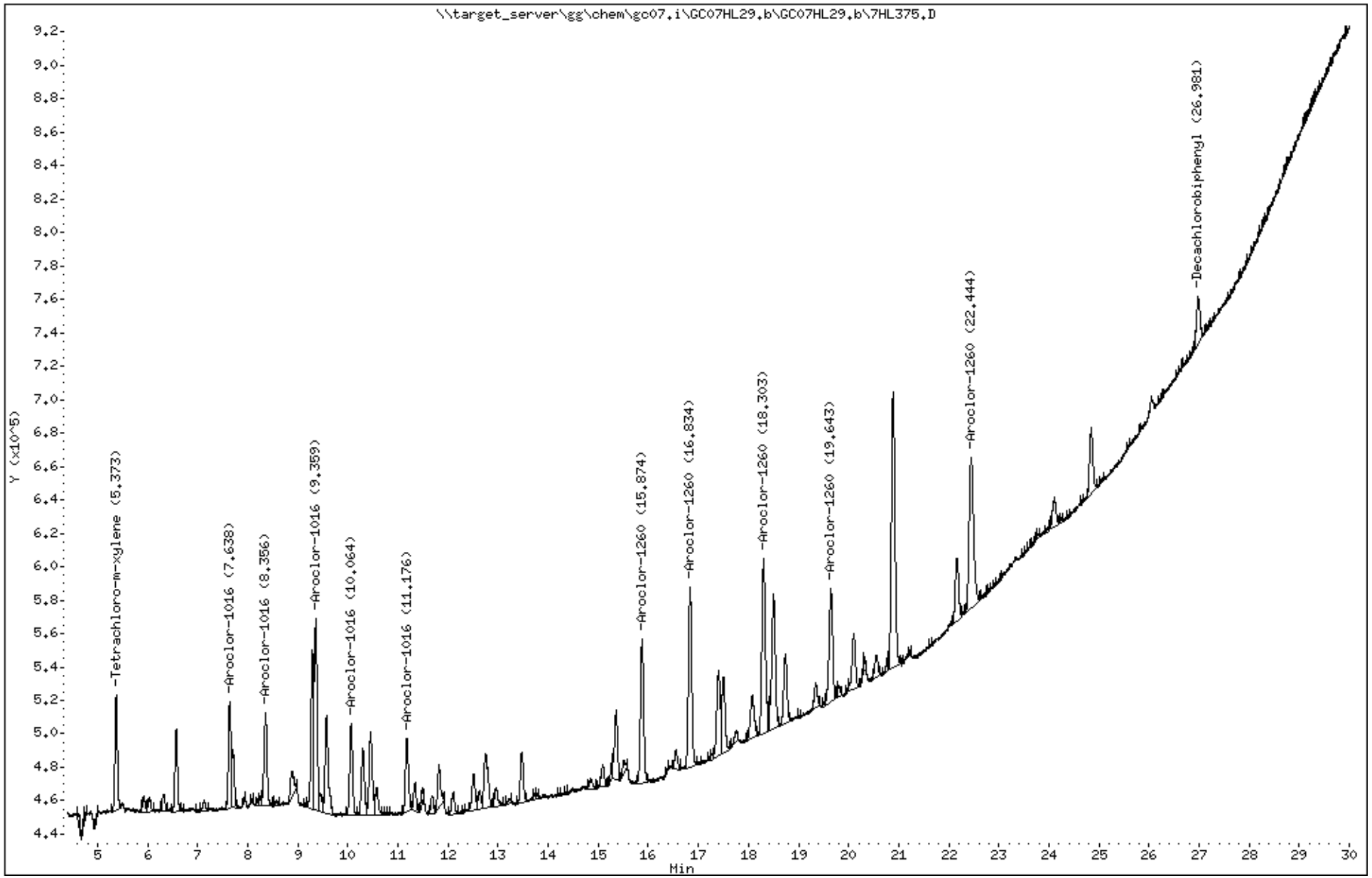
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL375.D
Lab Smp Id: WG156298-4
Inj Date : 29-DEC-2014 12:13
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-4
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 12:13   Cal File: 7HL375.D
Als bottle: 3   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE		RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8			
5.372	5.385	-0.013	68980	0.00100	0.00254				
5 Aroclor-1016						CAS #: 12674-11-2			
7.637	7.651	-0.014	63313	0.05000	0.0544	80.00-	120.00	100.00	
8.355	8.366	-0.011	55324	0.05000	0.157	158.77-	238.15	87.38	
9.359	9.370	-0.011	114501	0.05000	0.0804	296.98-	445.46	180.85	
10.064	10.075	-0.011	54547	0.05000	0.0640	114.78-	172.17	86.15	
11.175	11.185	-0.010	44053	0.05000	0.0858	112.32-	168.48	69.58	
Average of Peak Amounts =					0.08832				
9 Aroclor-1260						CAS #: 11096-82-5			
15.874	15.878	-0.004	86318	0.05000	0.0540	80.00-	120.00	100.00	
16.834	16.833	0.001	107694	0.05000	0.0538	94.69-	142.03	124.76	
18.302	18.300	0.002	105105	0.05000	0.0535	89.28-	133.92	121.76	
19.642	19.643	-0.001	67519	0.05000	0.0526	72.48-	108.72	78.22	
22.444	22.441	0.003	90403	0.05000	0.0506	0.00-	0.00	104.73	
Average of Peak Amounts =					0.05290				
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3			
26.980	26.976	0.004	28817	0.00100	0.00276				

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL375.D
Date : 29-DEC-2014 12:13
Client ID:
Instrument: gc07.i
Sample Info: WG156298-4
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



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Report Date: 05-Jan-2015 13:57

Katahdin Analytical Services

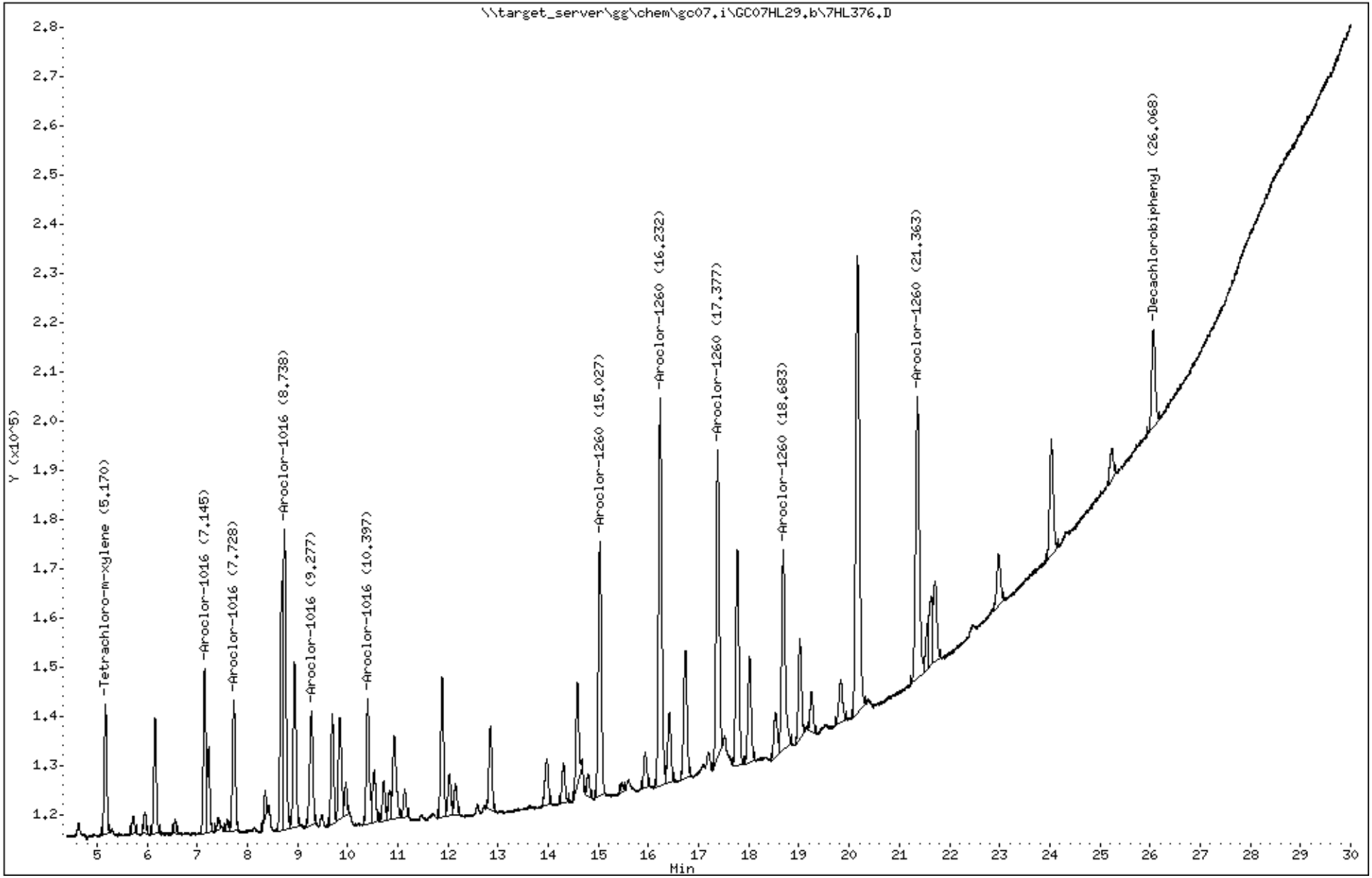
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL376.D
Lab Smp Id: WG156298-5
Inj Date : 29-DEC-2014 12:48
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-5
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 4   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.169	5.157	0.012	26438	0.00200	0.00181			
6 Aroclor-1016					CAS #: 12674-11-2			
7.144	7.132	0.012	33574	0.10000	0.105	80.00- 120.00	100.00	
7.728	7.715	0.013	26471	0.10000	0.101	158.77- 238.15	78.84	
8.738	8.722	0.016	61091	0.10000	0.103	296.98- 445.46	181.96	
9.276	9.260	0.016	23219	0.10000	0.0971	114.78- 172.16	69.16	
10.396	10.382	0.014	25268	0.10000	0.100	112.32- 168.48	75.26	
	Average of Peak Amounts =				0.10122			
9 Aroclor-1260					CAS #: 11096-82-5			
15.026	15.010	0.016	51733	0.10000	0.103	80.00- 120.00	100.00	
16.231	16.210	0.021	78856	0.10000	0.101	94.69- 142.03	152.43	
17.376	17.360	0.016	62923	0.10000	0.0952	89.28- 133.92	121.63	
18.683	18.667	0.016	40742	0.10000	0.0981	72.48- 108.72	78.75	
21.363	21.340	0.023	57182	0.10000	0.0936	0.00- 0.00	110.53	
	Average of Peak Amounts =				0.09818			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.068	26.048	0.020	19881	0.00200	0.00195			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL376.D
Date : 29-DEC-2014 12:48
Client ID:
Instrument: gc07.i
Sample Info: WG156298-5
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7HL376.D
Report Date: 05-Jan-2015 14:02

Katahdin Analytical Services

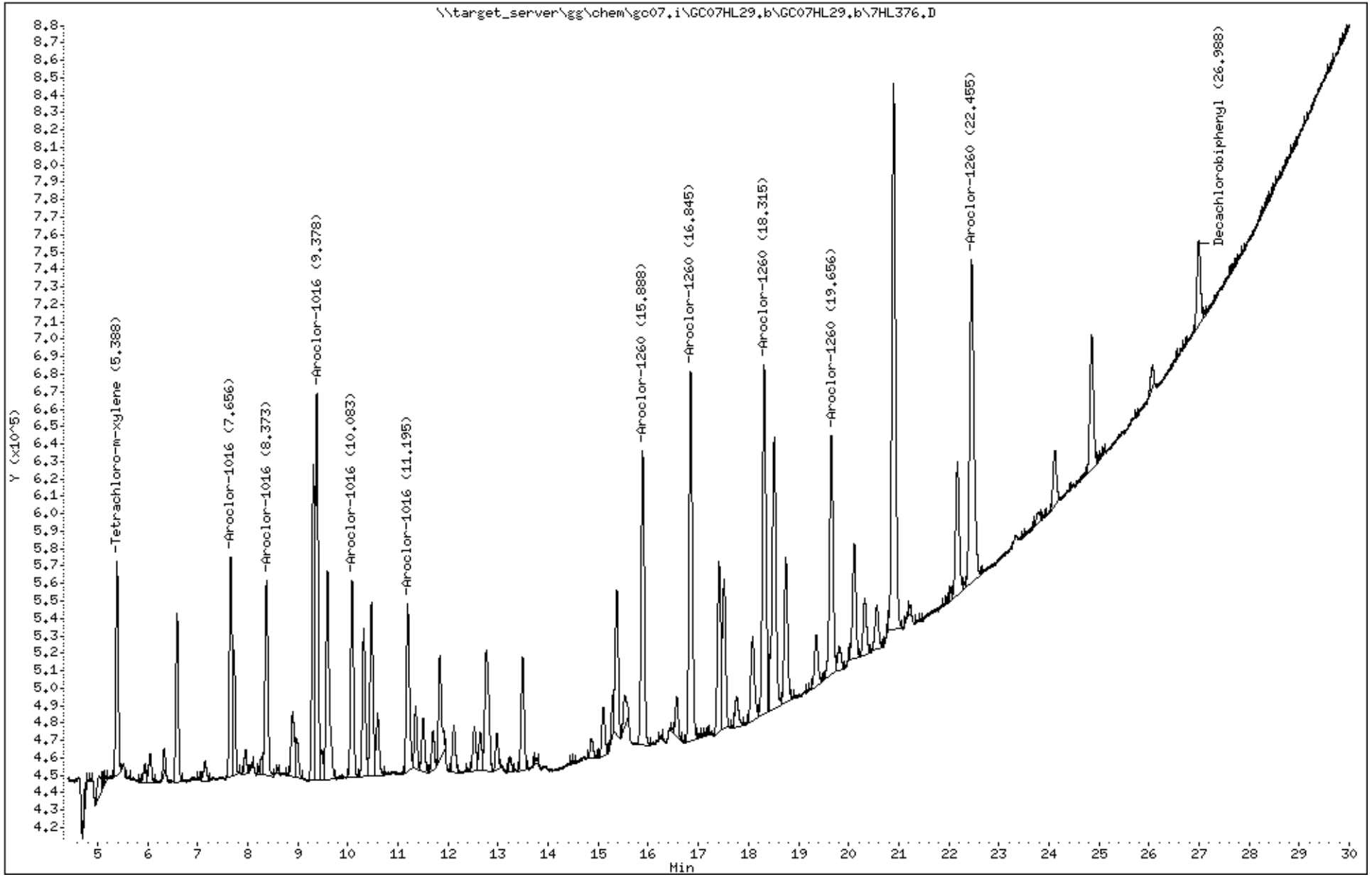
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL376.D
Lab Smp Id: WG156298-6
Inj Date : 29-DEC-2014 12:48
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-6
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 12:48   Cal File: 7HL376.D
Als bottle: 4   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.387	5.385	0.002	122314	0.00200	0.00372			
5 Aroclor-1016						CAS #: 12674-11-2		
7.656	7.651	0.005	125762	0.10000	0.105	80.00- 120.00	100.00	
8.372	8.366	0.006	111698	0.10000	0.209	158.77- 238.15	88.82	
9.377	9.370	0.007	221796	0.10000	0.139	296.98- 445.46	176.36	
10.082	10.075	0.007	113311	0.10000	0.126	114.78- 172.17	90.10	
11.194	11.185	0.009	95965	0.10000	0.156	112.32- 168.48	76.31	
Average of Peak Amounts =					0.14700			
9 Aroclor-1260						CAS #: 11096-82-5		
15.887	15.878	0.009	168806	0.10000	0.104	80.00- 120.00	100.00	
16.844	16.833	0.011	211832	0.10000	0.104	94.69- 142.03	125.49	
18.314	18.300	0.014	200141	0.10000	0.101	89.28- 133.92	118.56	
19.656	19.643	0.013	137003	0.10000	0.104	72.48- 108.72	81.16	
22.454	22.441	0.013	185304	0.10000	0.102	0.00- 0.00	109.77	
Average of Peak Amounts =					0.10300			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.987	26.976	0.011	49194	0.00200	0.00384			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL376.D
Date : 29-DEC-2014 12:48
Client ID:
Instrument: gc07.i
Sample Info: WG156298-6
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Katahdin Analytical Services 0000401

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Report Date: 05-Jan-2015 13:57

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL377.D
Lab Smp Id: WG156298-7
Inj Date : 29-DEC-2014 13:22
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-7
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 5   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

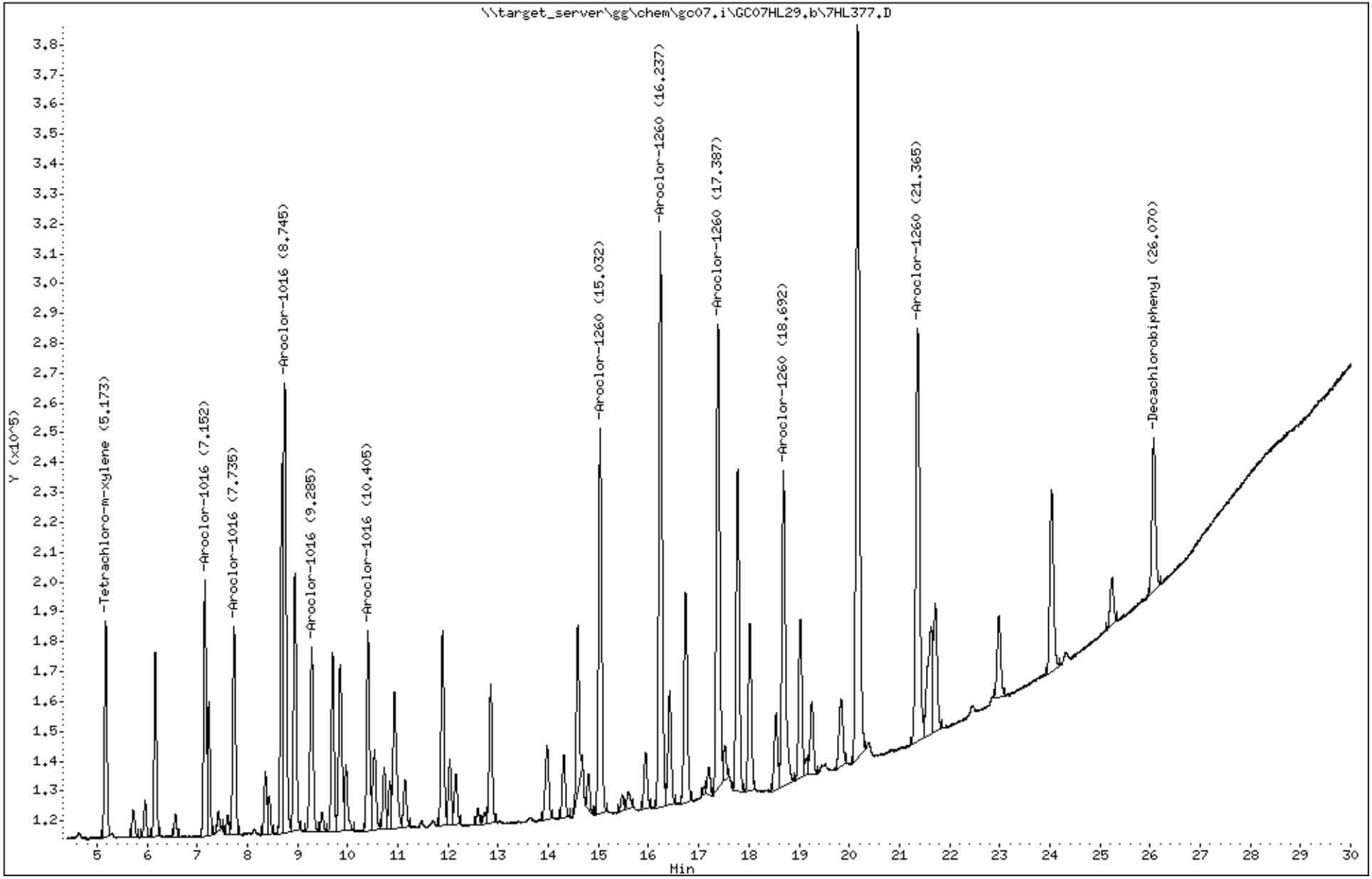
Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.173	5.157	0.016	72103	0.00500	0.00495			
6 Aroclor-1016					CAS #: 12674-11-2			
7.151	7.132	0.019	85708	0.25000	0.267	80.00- 120.00	100.00	
7.734	7.715	0.019	69664	0.25000	0.265	158.77- 238.15	81.28	
8.744	8.722	0.022	150413	0.25000	0.254	296.98- 445.46	175.49	
9.284	9.260	0.024	61879	0.25000	0.259	114.78- 172.16	72.20	
10.404	10.382	0.022	66850	0.25000	0.266	112.32- 168.48	78.00	
	Average of Peak Amounts =				0.26220			
9 Aroclor-1260					CAS #: 11096-82-5			
15.031	15.010	0.021	129147	0.25000	0.257	80.00- 120.00	100.00	
16.236	16.210	0.026	192664	0.25000	0.248	94.69- 142.03	149.18	
17.386	17.360	0.026	155283	0.25000	0.235	89.28- 133.92	120.24	
18.691	18.667	0.024	105490	0.25000	0.254	72.48- 108.72	81.68	
21.364	21.340	0.024	138185	0.25000	0.226	0.00- 0.00	107.00	
	Average of Peak Amounts =				0.24400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.069	26.048	0.021	51236	0.00500	0.00502			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL377.D
Date : 29-DEC-2014 13:22
Client ID:
Sample Info: WG156298-7
Purge Volume: 1.0
Column phase: ZB-MultiResidue-1

Instrument: gc07.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 0000403

Data File: 7HL377.D
Report Date: 05-Jan-2015 14:02

Katahdin Analytical Services

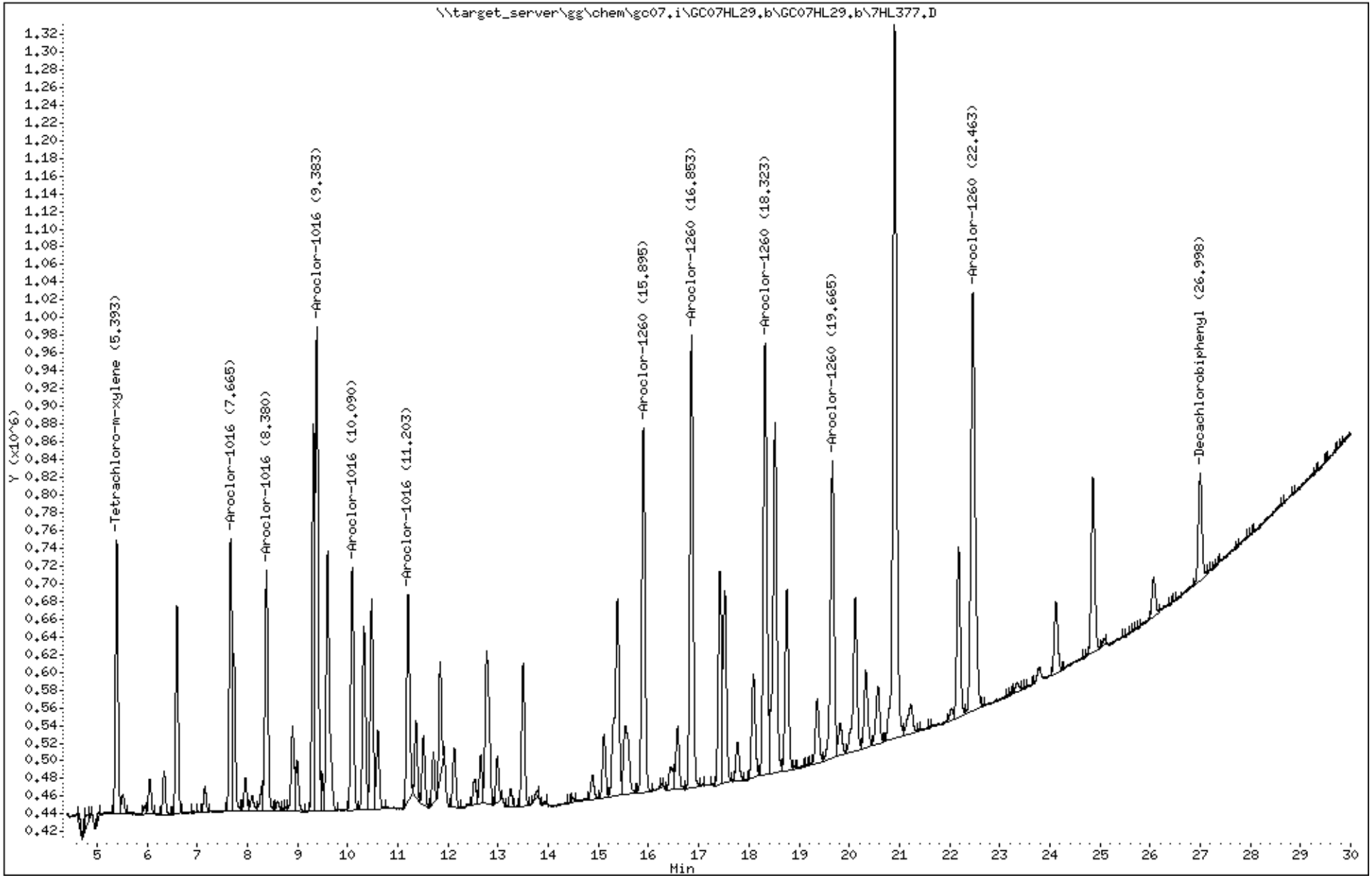
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL377.D
Lab Smp Id: WG156298-8
Inj Date : 29-DEC-2014 13:22
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-8
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 13:22   Cal File: 7HL377.D
Als bottle: 5   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.392	5.385	0.007	308617	0.00500	0.00727			
5 Aroclor-1016						CAS #: 12674-11-2		
7.664	7.651	0.013	307633	0.25000	0.256	80.00- 120.00	100.00	
8.379	8.366	0.013	272477	0.25000	0.385	158.77- 238.15	88.57	
9.382	9.370	0.012	546088	0.25000	0.310	296.98- 445.46	177.51	
10.089	10.075	0.014	274258	0.25000	0.290	114.78- 172.17	89.15	
11.202	11.185	0.017	232822	0.25000	0.327	112.32- 168.48	75.68	
Average of Peak Amounts =					0.31360			
9 Aroclor-1260						CAS #: 11096-82-5		
15.894	15.878	0.016	410139	0.25000	0.251	80.00- 120.00	100.00	
16.852	16.833	0.019	510558	0.25000	0.250	94.69- 142.03	124.48	
18.322	18.300	0.022	486218	0.25000	0.247	89.28- 133.92	118.55	
19.664	19.643	0.021	335931	0.25000	0.254	72.48- 108.72	81.91	
22.462	22.441	0.021	471115	0.25000	0.258	0.00- 0.00	114.87	
Average of Peak Amounts =					0.25200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.997	26.976	0.021	120467	0.00500	0.00721			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL377.D
Date : 29-DEC-2014 13:22
Client ID:
Instrument: gc07.i
Sample Info: WG156298-8
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



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Report Date: 05-Jan-2015 13:57

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL378.D
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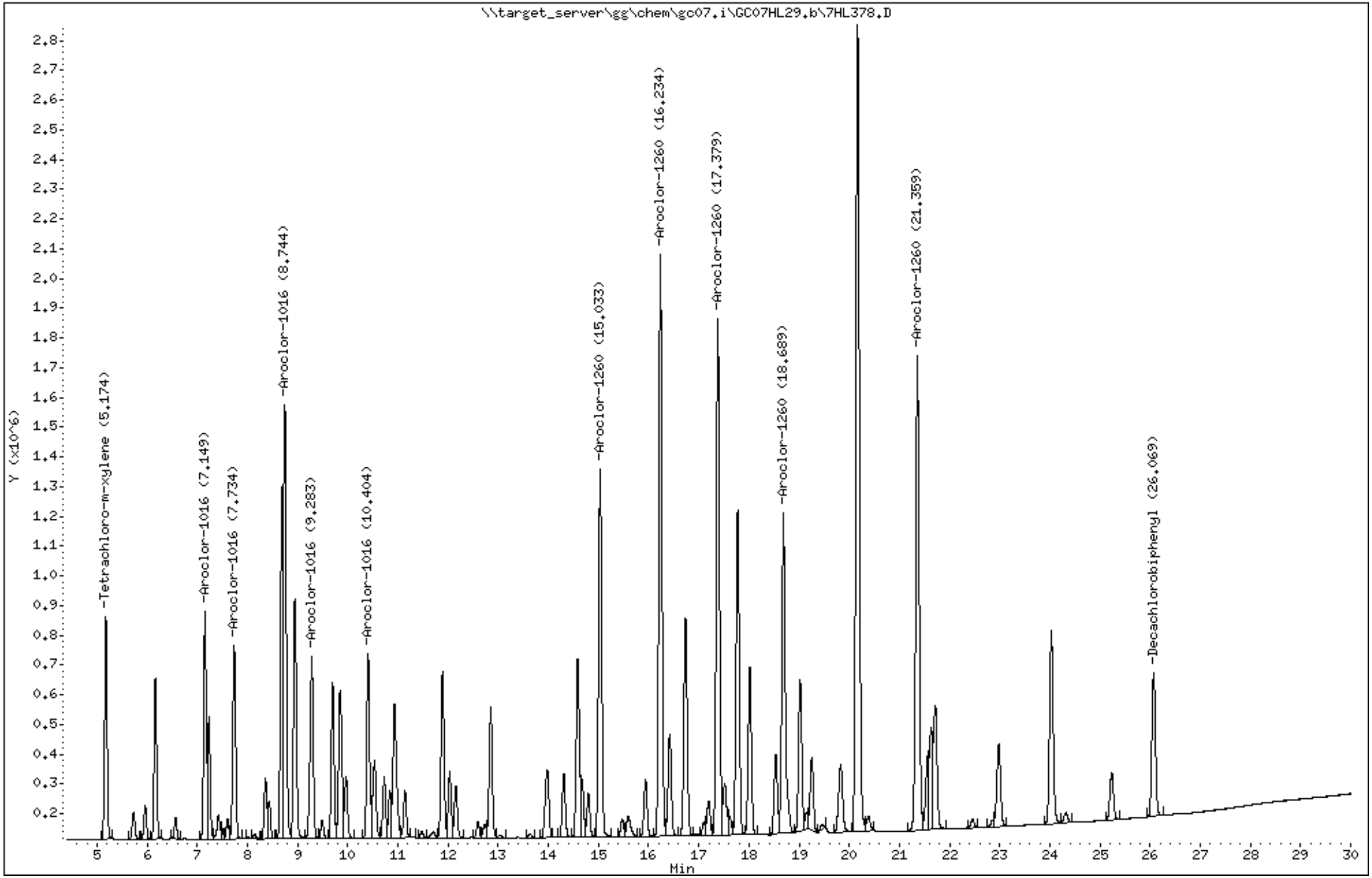
Inj Date : 29-DEC-2014 13:57
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-9
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 6   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.174	5.157	0.017	748811	0.05000	0.0514			
6 Aroclor-1016						CAS #: 12674-11-2		
7.149	7.132	0.017	767245	2.50000	2.39	80.00- 120.00	100.00	
7.734	7.715	0.019	648378	2.50000	2.46	158.77- 238.15	84.51	
8.744	8.722	0.022	1456335	2.50000	2.46	296.98- 445.46	189.81	
9.282	9.260	0.022	608961	2.50000	2.55	114.78- 172.16	79.37	
10.404	10.382	0.022	623208	2.50000	2.48	112.32- 168.48	81.23	
Average of Peak Amounts =					2.46800			
9 Aroclor-1260						CAS #: 11096-82-5		
15.032	15.010	0.022	1235431	2.50000	2.46	80.00- 120.00	100.00	
16.234	16.210	0.024	1955495	2.50000	2.51	94.69- 142.03	158.28	
17.379	17.360	0.019	1736902	2.50000	2.63	89.28- 133.92	140.59	
18.689	18.667	0.022	1078757	2.50000	2.60	72.48- 108.72	87.32	
21.359	21.340	0.019	1595681	2.50000	2.61	0.00- 0.00	129.16	
Average of Peak Amounts =					2.56200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.069	26.048	0.021	481051	0.05000	0.0471			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL378.D
Date : 29-DEC-2014 13:57
Client ID:
Instrument: gc07.i
Sample Info: WG156298-9
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Katahdin Analytical Services 0000407

Data File: 7HL378.D
Report Date: 05-Jan-2015 14:02

Katahdin Analytical Services

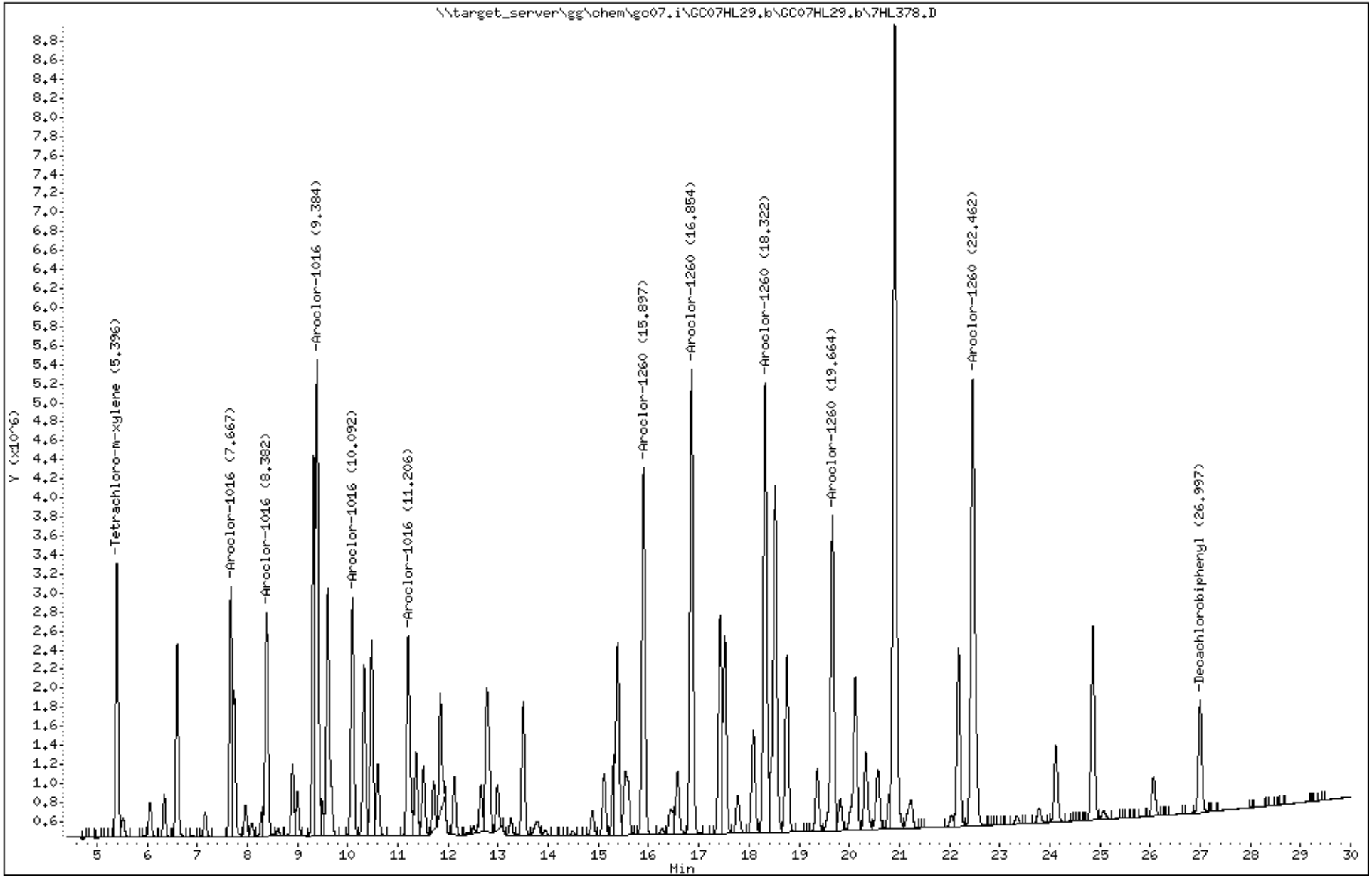
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL378.D
Lab Smp Id: WG156298-10
Inj Date : 29-DEC-2014 13:57
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-10
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 13:57   Cal File: 7HL378.D
Als bottle: 6   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.395	5.385	0.010	2872871	0.05000	0.0559			
5 Aroclor-1016						CAS #: 12674-11-2		
7.667	7.651	0.016	2631919	2.50000	2.24	80.00- 120.00	100.00	
8.382	8.366	0.016	2353611	2.50000	2.74	158.77- 238.15	89.43	
9.383	9.370	0.013	4998415	2.50000	2.60	296.98- 445.46	189.92	
10.092	10.075	0.017	2507186	2.50000	2.53	114.78- 172.17	95.26	
11.205	11.185	0.020	2106538	2.50000	2.66	112.32- 168.48	80.04	
	Average of Peak Amounts =				2.55400			
9 Aroclor-1260						CAS #: 11096-82-5		
15.897	15.878	0.019	3849112	2.50000	2.38	80.00- 120.00	100.00	
16.853	16.833	0.020	4884967	2.50000	2.42	94.69- 142.03	126.91	
18.322	18.300	0.022	4724431	2.50000	2.42	89.28- 133.92	122.74	
19.663	19.643	0.020	3309431	2.50000	2.50	72.48- 108.72	85.98	
22.462	22.441	0.021	4695060	2.50000	2.55	0.00- 0.00	121.98	
	Average of Peak Amounts =				2.45400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.997	26.976	0.021	1177154	0.05000	0.0570			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL378.D
Date : 29-DEC-2014 13:57
Client ID:
Instrument: gc07.i
Sample Info: WG156298-10
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Katahdin Analytical Services 0000409

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL379.D
Report Date: 05-Jan-2015 13:57

Katahdin Analytical Services

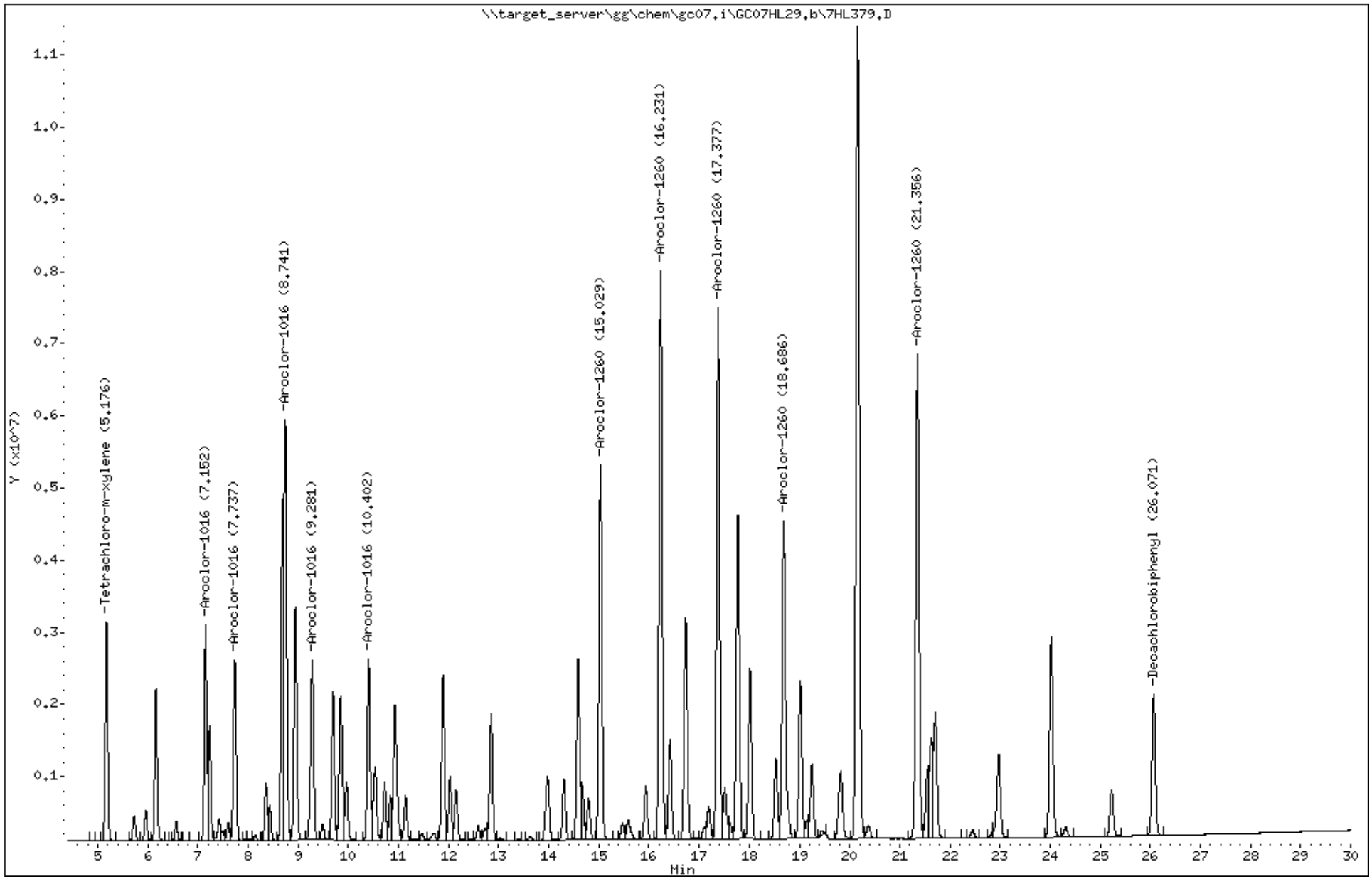
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL379.D
Lab Smp Id: WG156298-11
Inj Date : 29-DEC-2014 14:32
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-11
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 7   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.175	5.157	0.018	3036158	0.20000	0.208			
6 Aroclor-1016						CAS #: 12674-11-2		
7.152	7.132	0.020	2982464	10.0000	9.30	80.00- 120.00	100.00	
7.737	7.715	0.022	2503495	10.0000	9.52	158.77- 238.15	83.94	
8.740	8.722	0.018	5823725	10.0000	9.86	296.98- 445.46	195.27	
9.280	9.260	0.020	2494678	10.0000	10.4	114.78- 172.16	83.64	
10.402	10.382	0.020	2515092	10.0000	9.99	112.32- 168.48	84.33	
	Average of Peak Amounts =				9.81400			
9 Aroclor-1260						CAS #: 11096-82-5		
15.029	15.010	0.019	5200408	10.0000	10.3	80.00- 120.00	100.00(A)	
16.230	16.210	0.020	7875444	10.0000	10.1	94.69- 142.03	151.44	
17.377	17.360	0.017	7352989	10.0000	11.1	89.28- 133.92	141.39	
18.685	18.667	0.018	4399181	10.0000	10.6	72.48- 108.72	84.59	
21.355	21.340	0.015	6714236	10.0000	11.0	0.00- 0.00	129.11	
	Average of Peak Amounts =				10.6200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.070	26.048	0.022	1948107	0.20000	0.191			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL379.D
Date : 29-DEC-2014 14:32
Client ID:
Instrument: gc07.i
Sample Info: WG156298-11
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Katahdin Analytical Services 0000411

Data File: 7HL379.D
Report Date: 05-Jan-2015 14:02

Katahdin Analytical Services

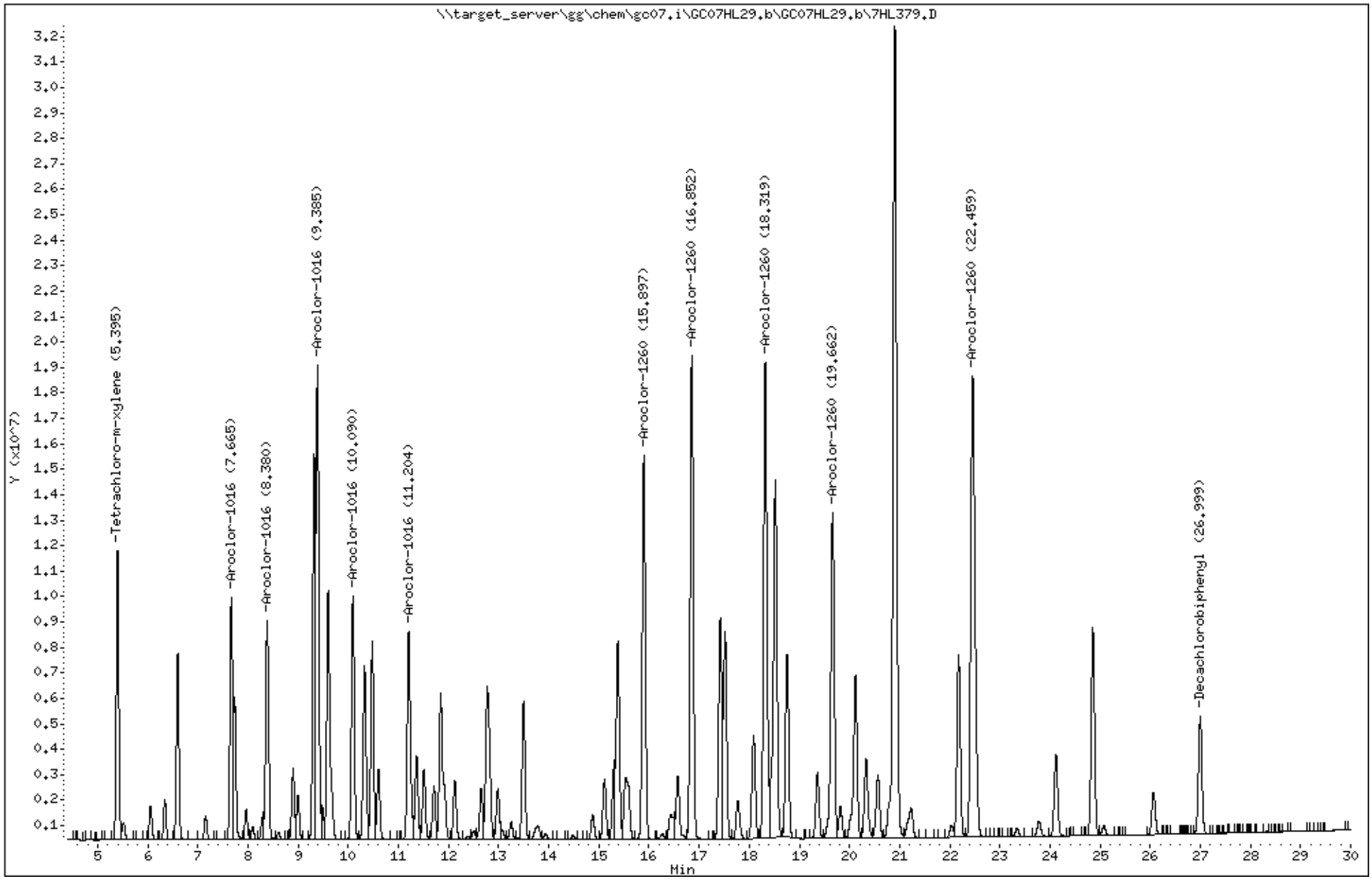
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL379.D
Lab Smp Id: WG156298-12
Inj Date : 29-DEC-2014 14:32
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-12
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 7   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.395	5.385	0.010	11364152	0.20000	0.188			
5 Aroclor-1016						CAS #: 12674-11-2		
7.665	7.651	0.014	9513687	10.0000	8.37	80.00- 120.00	100.00	
8.380	8.366	0.014	8610005	10.0000	8.62	158.77- 238.15	90.50	
9.385	9.370	0.015	18650149	10.0000	9.01	296.98- 445.46	196.03	
10.090	10.075	0.015	9578318	10.0000	9.23	114.78- 172.17	100.68	
11.203	11.185	0.018	8161812	10.0000	9.34	112.32- 168.48	85.79	
Average of Peak Amounts =					8.91400			
9 Aroclor-1260						CAS #: 11096-82-5		
15.897	15.878	0.019	15098823	10.0000	9.46	80.00- 120.00	100.00	
16.852	16.833	0.019	19000840	10.0000	9.49	94.69- 142.03	125.84	
18.318	18.300	0.018	18694119	10.0000	9.64	89.28- 133.92	123.81	
19.662	19.643	0.019	12791504	10.0000	9.74	72.48- 108.72	84.72	
22.458	22.441	0.017	18088117	10.0000	9.87	0.00- 0.00	119.80	
Average of Peak Amounts =					9.64000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.998	26.976	0.022	4636400	0.20000	0.189			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL379.D
Date : 29-DEC-2014 14:32
Client ID:
Instrument: gc07.i
Sample Info: WG156298-12
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Katahdin Analytical Services 0000413

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL380.D
Report Date: 05-Jan-2015 14:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL380.D
Lab Smp Id: WG156298-13
Inj Date : 29-DEC-2014 15:06
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-13,TH0797
Misc Info : WG156298,WG156298,WG156298-1,TH0797-1
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 8   QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1016.sub
Target Version: 4.12   Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

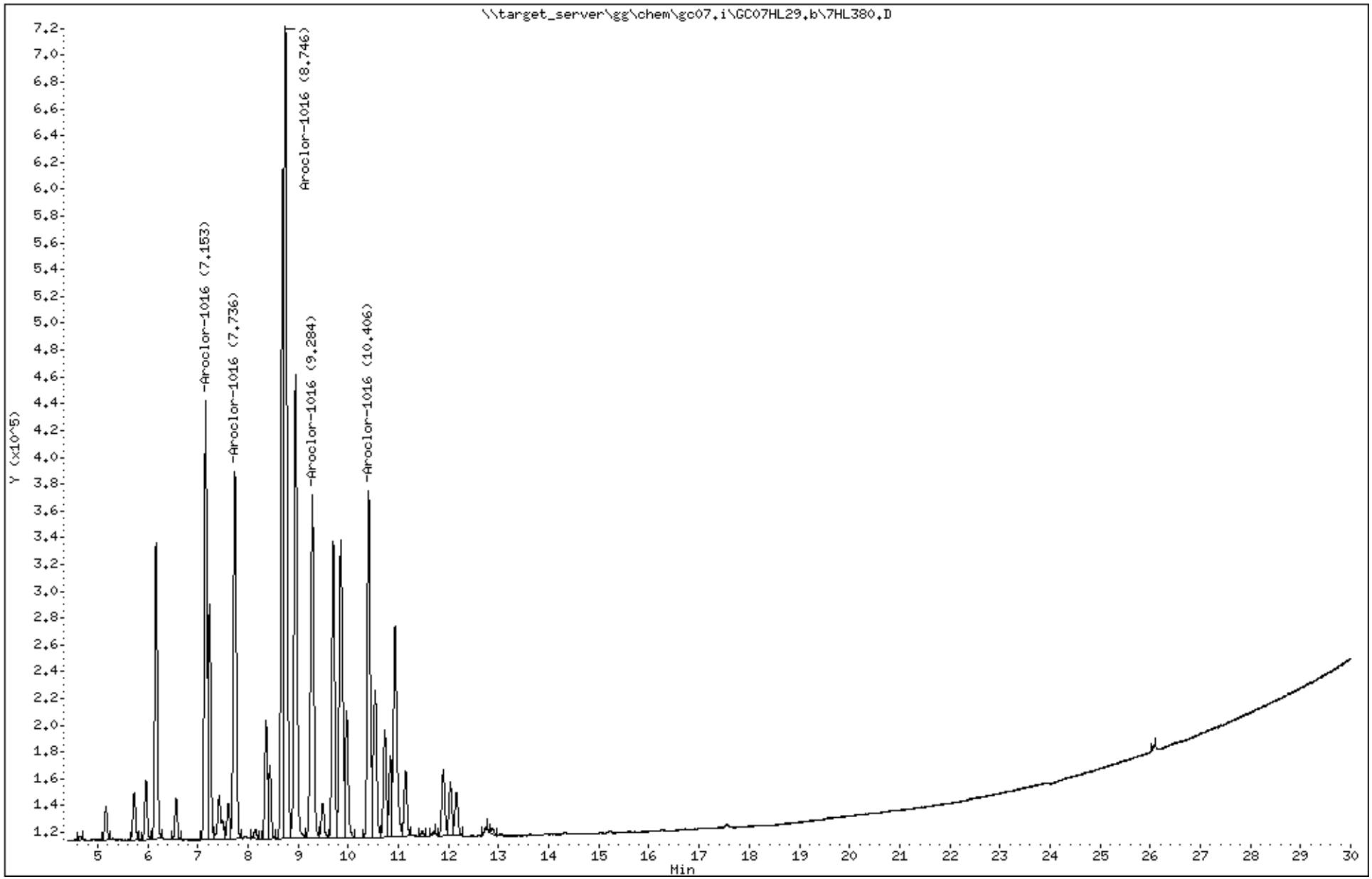
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor-1016					CAS #: 12674-11-2			
7.152	7.132	0.020	327652	1.02162	1.02	80.00- 120.00	100.00	
7.735	7.715	0.020	273520	1.03992	1.04	158.77- 238.15	83.48	
8.745	8.722	0.023	606157	1.02584	1.02	296.98- 445.46	185.00	
9.284	9.260	0.024	255792	1.07022	1.07	114.78- 172.16	78.07	
10.405	10.382	0.023	259522	1.03080	1.03	112.32- 168.48	79.21	
			Average of Peak Concentrations =		1.04			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL380.D
Date : 29-DEC-2014 15:06
Client ID:
Sample Info: WG156298-13,TH0797

Instrument: gc07.i

Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7HL380.D
Report Date: 05-Jan-2015 14:08

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL380.D
Lab Smp Id: WG156298-13
Inj Date : 29-DEC-2014 15:06
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-13,TH0797
Misc Info : WG156298,WG156298,WG156298-2,TH0797-1
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 8   QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1016.sub
Target Version: 4.12   Sample Matrix: SOIL

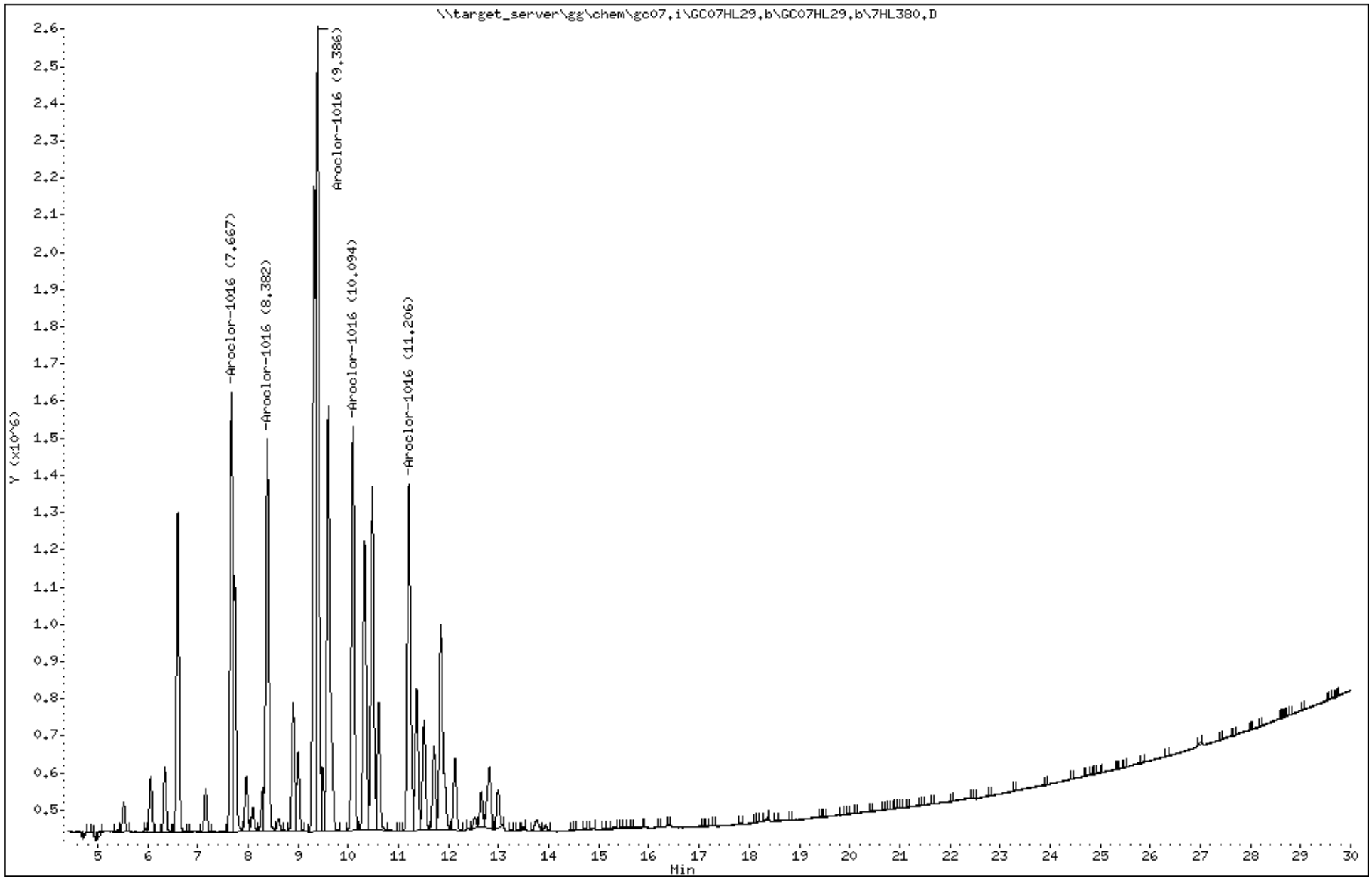
Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor-1016					CAS #: 12674-11-2			
7.667	7.651	0.016	1183224	1.04115	1.04	80.00- 120.00	100.00	
8.382	8.366	0.016	1054966	1.05624	1.06	158.77- 238.15	89.16	
9.385	9.370	0.015	2165897	1.04613	1.05	296.98- 445.46	183.05	
10.093	10.075	0.018	1087631	1.04823	1.05	114.78- 172.17	91.92	
11.205	11.185	0.020	931884	1.06617	1.07	112.32- 168.48	78.76	
			Average of Peak Concentrations =		1.05			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL380.D
Date : 29-DEC-2014 15:06
Client ID:
Sample Info: WG156298-13,TH0797
Column phase: ZB-MultiResidue-2

Instrument: gc07.i
Operator: JLP
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL381.D
Report Date: 05-Jan-2015 14:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL381.D
Lab Smp Id: WG156298-14
Inj Date : 29-DEC-2014 15:41
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-14,TH0797
Misc Info : WG156298,WG156298,WG156298-1,TH0797-1
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 9   QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1260.sub
Target Version: 4.12   Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

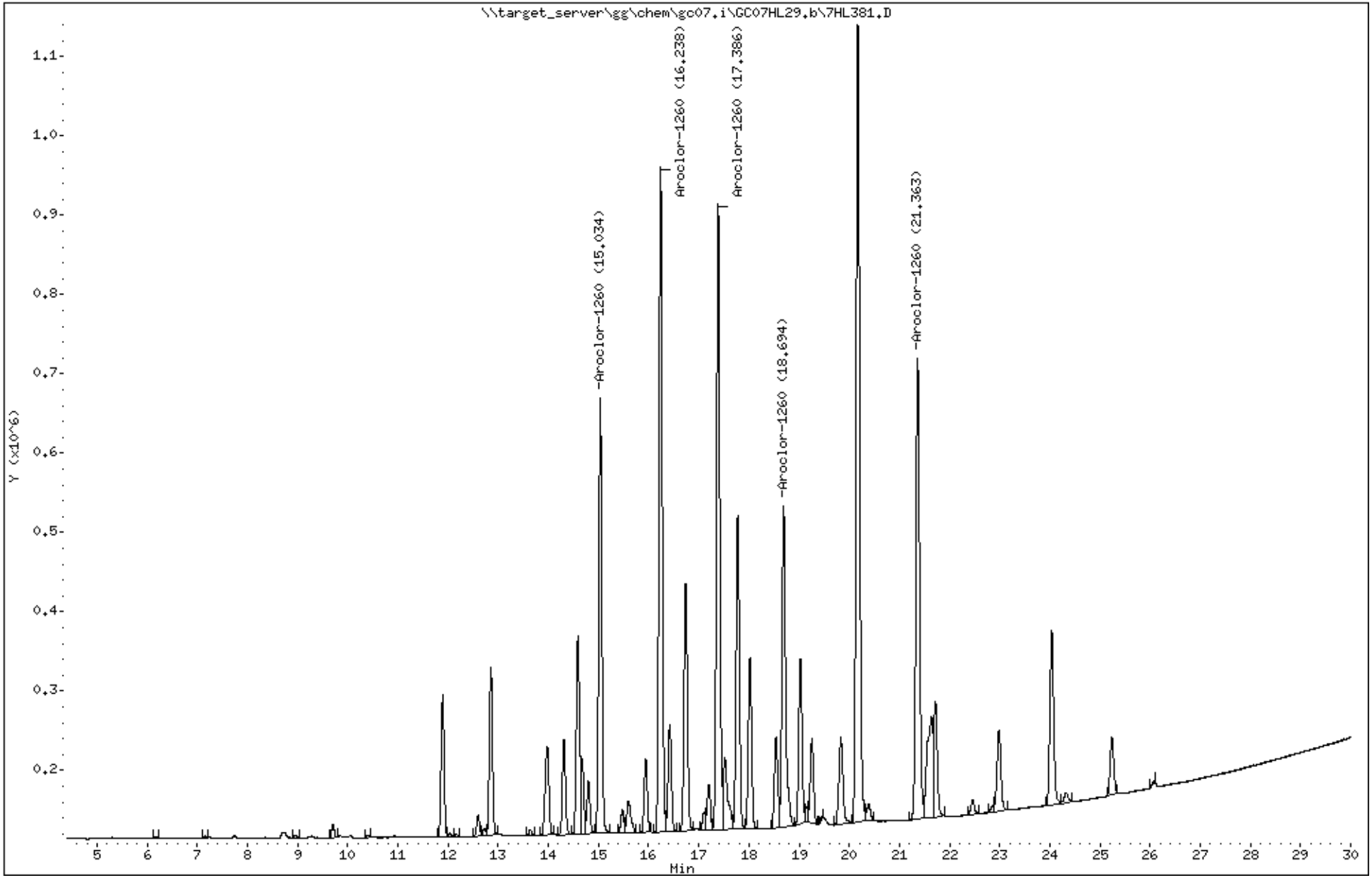
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
9 Aroclor-1260					CAS #: 11096-82-5			
15.034	15.010	0.024	548071	1.09057	1.09	80.00- 120.00	100.00	
16.237	16.210	0.027	840008	1.07985	1.08	94.69- 142.03	153.27	
17.385	17.360	0.025	788622	1.19256	1.19	89.28- 133.92	143.89	
18.694	18.667	0.027	404362	0.97368	0.974	72.48- 108.72	73.78	
21.362	21.340	0.022	581404	0.95147	0.951	0.00- 0.00	106.08	
			Average of Peak Concentrations =		1.06			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL381.D
Date : 29-DEC-2014 15:41
Client ID:
Sample Info: WG156298-14,TH0797

Instrument: gc07.i

Operator: JLP
Column diameter: 0.53

Column phase: ZB-MultiResidue-1



Data File: 7HL381.D
Report Date: 05-Jan-2015 14:08

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL381.D
Lab Smp Id: WG156298-14
Inj Date : 29-DEC-2014 15:41
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-14,TH0797
Misc Info : WG156298,WG156298,WG156298-2,TH0797-1
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 29-DEC-2014 14:32   Cal File: 7HL379.D
Als bottle: 9   QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1260.sub
Target Version: 4.12   Sample Matrix: SOIL

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

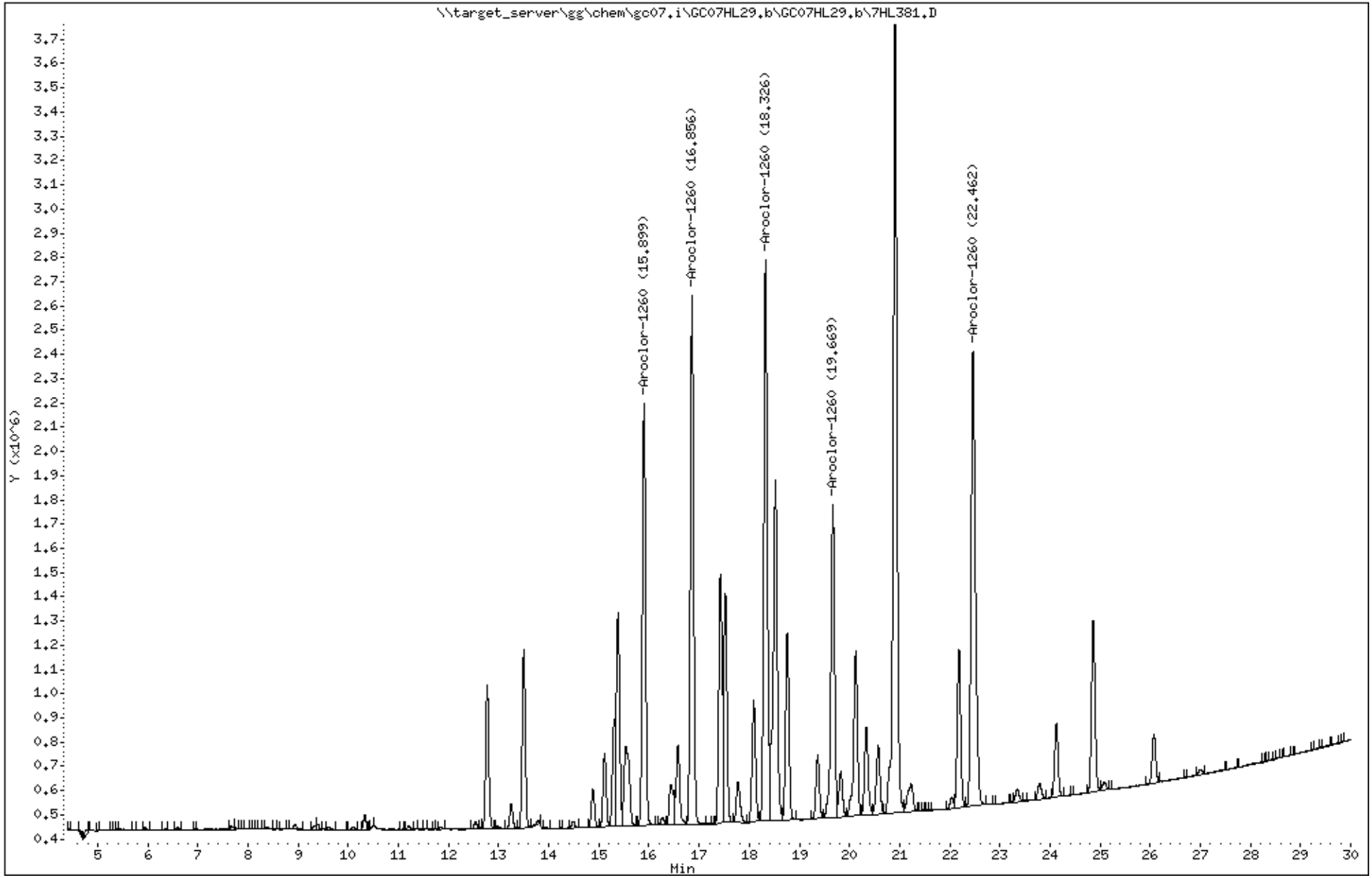
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
9 Aroclor-1260					CAS #: 11096-82-5			
15.898	15.878	0.020	1739830	1.09011	1.09	80.00- 120.00	100.00	
16.855	16.833	0.022	2179190	1.08836	1.09	94.69- 142.03	125.25	
18.325	18.300	0.025	2315670	1.19442	1.19	89.28- 133.92	133.10	
19.668	19.643	0.025	1290827	0.98243	0.982	72.48- 108.72	74.19	
22.462	22.441	0.021	1873014	1.02179	1.02	0.00- 0.00	107.66	
		Average of Peak Concentrations =			1.08			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL381.D
Date : 29-DEC-2014 15:41
Client ID:
Sample Info: WG156298-14,TH0797

Instrument: gc07.i

Operator: JLP

Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL382.D
Report Date: 05-Jan-2015 13:57

Katahdin Analytical Services

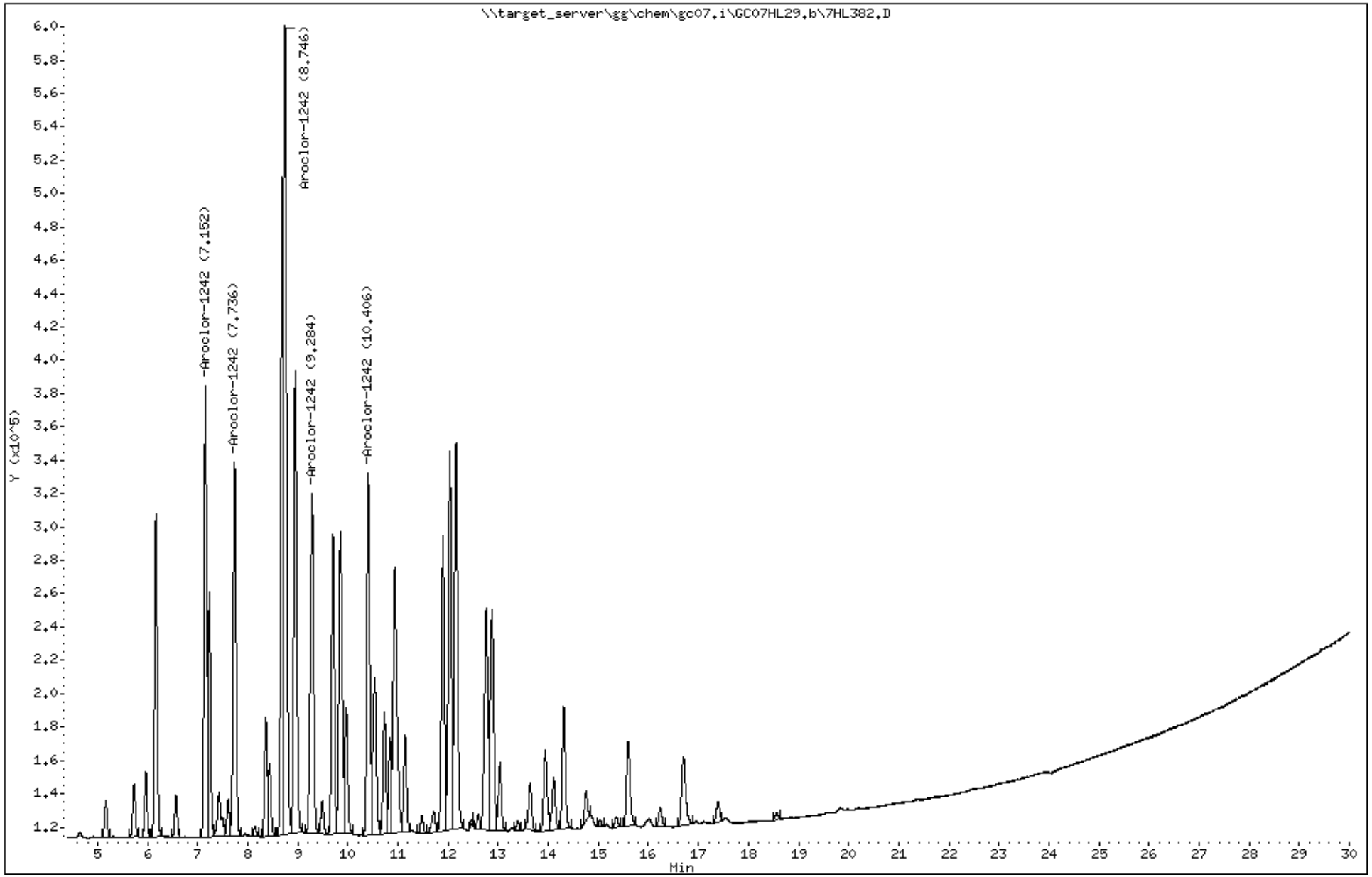
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL382.D
Lab Smp Id: WG156298-15
Inj Date : 29-DEC-2014 16:16
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-15
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 10   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1242.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor-1242					CAS #: 53469-21-9			
7.152	7.152	0.000	270737	1.00000	0.978	0.00- 0.00	100.00	
7.735	7.735	0.000	224083	1.00000	0.983	0.00- 0.00	82.77	
8.745	8.745	0.000	485305	1.00000	0.954	0.00- 0.00	179.25	
9.284	9.284	0.000	204432	1.00000	0.992	0.00- 0.00	75.51	
10.405	10.405	0.000	216870	1.00000	0.980	0.00- 0.00	80.10	
Average of Peak Amounts =					0.97740			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL382.D
Date : 29-DEC-2014 16:16
Client ID:
Instrument: gc07.i
Sample Info: WG156298-15
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7HL382.D
Report Date: 05-Jan-2015 14:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL382.D
Lab Smp Id: WG156298-16
Inj Date : 29-DEC-2014 16:16
Operator : JLP Inst ID: gc07.i
Smp Info : WG156298-16
Misc Info :
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

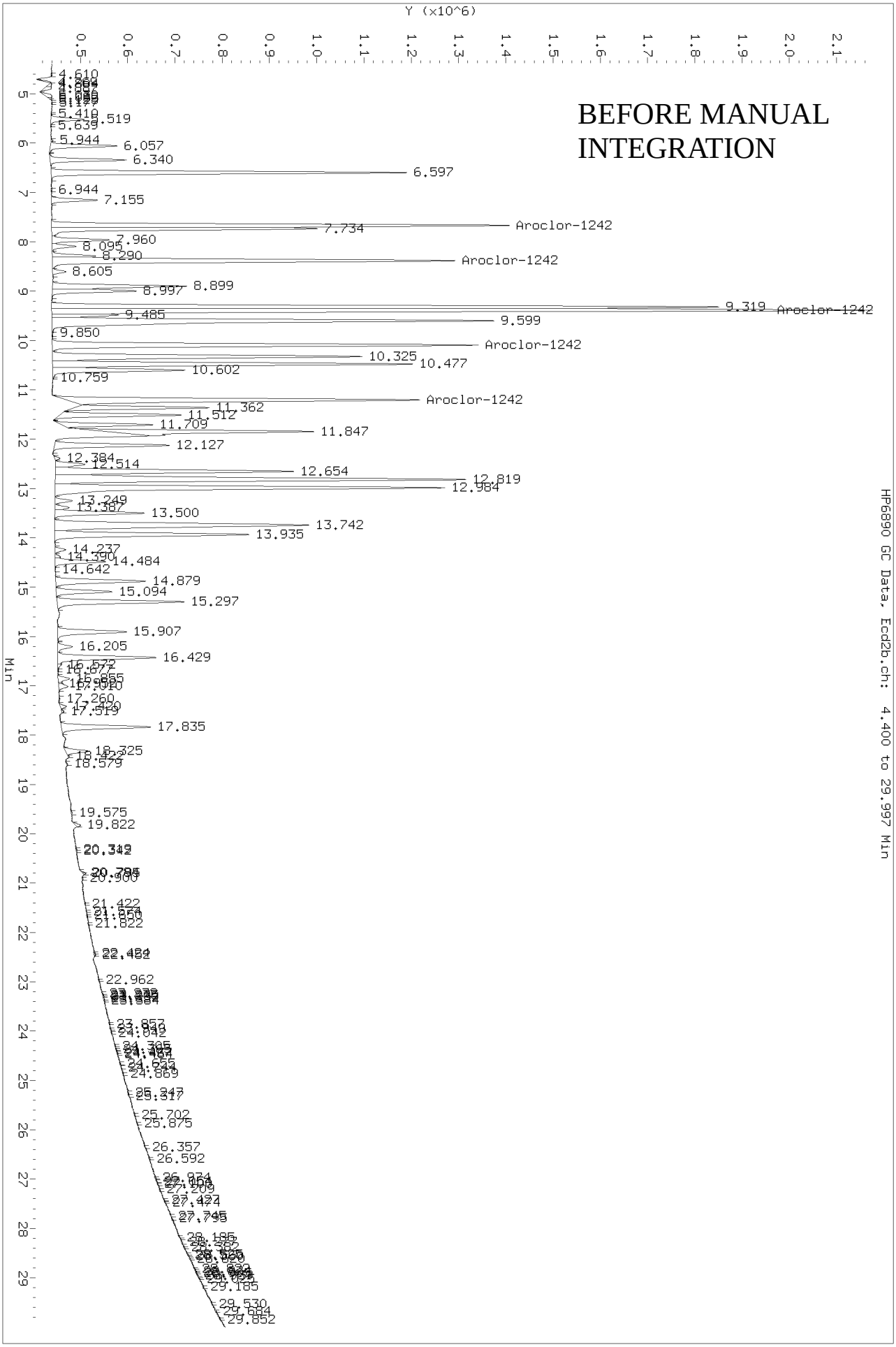
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor-1242					CAS #: 53469-21-9			
7.668	7.668	0.000	968436	1.00000	1.00	0.00- 0.00	100.00(M)	M9
8.382	8.382	0.000	852570	1.00000	4.91	0.00- 0.00	88.04	M9
9.385	9.385	0.000	1737094	1.00000	1.56	0.00- 0.00	179.37	M9
10.093	10.093	0.000	901531	1.00000	1.24	0.00- 0.00	93.09	M9
11.205	11.205	0.000	772293	1.00000	1.96	0.00- 0.00	79.75	M9
Average of Peak Amounts =					2.13400			

JLP
2:56 pm, Jan 05, 2015

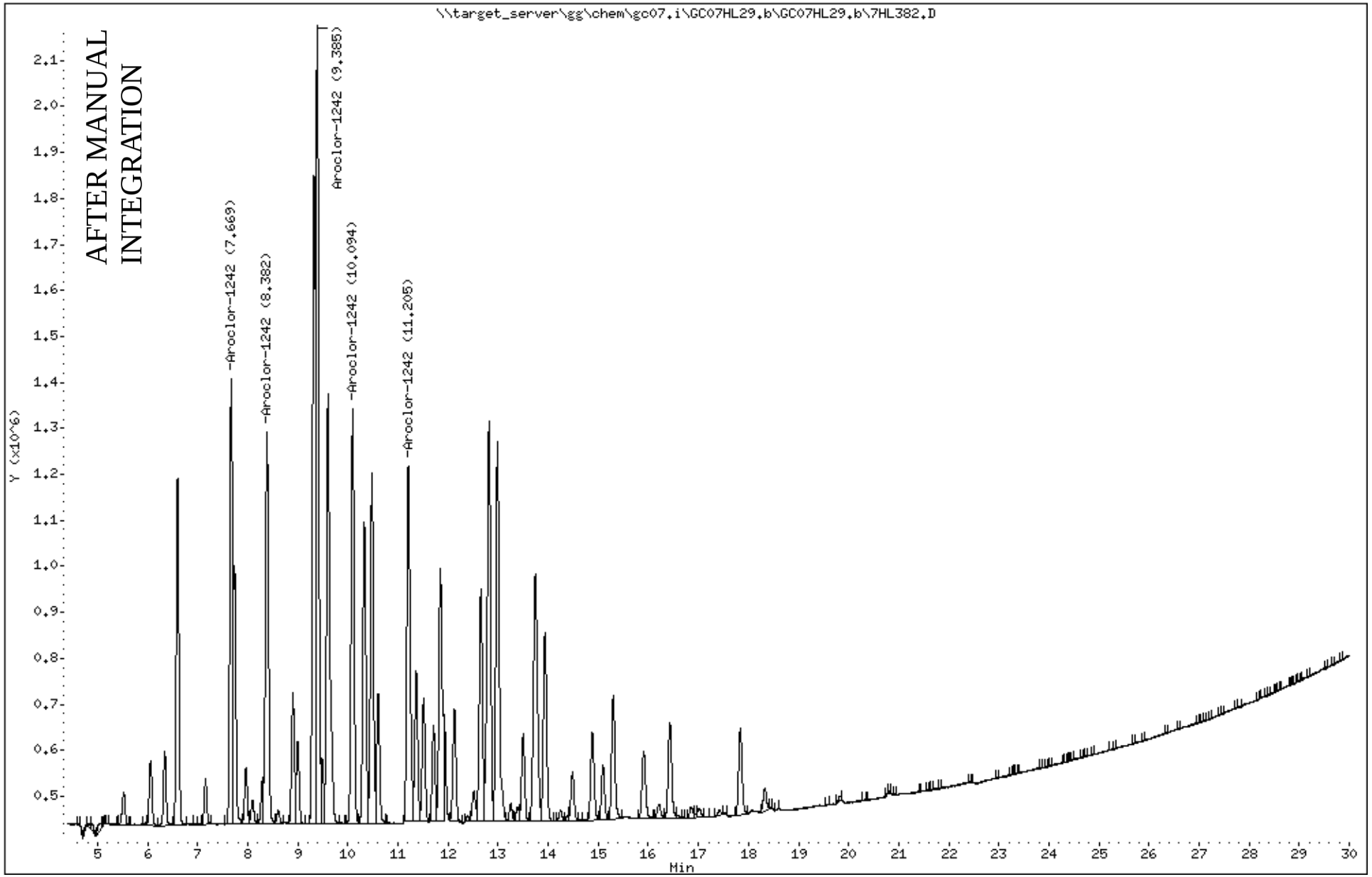
QC Flag Legend

M - Compound response manually integrated.



BEFORE MANUAL INTEGRATION

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL382.D
Date : 29-DEC-2014 16:16
Client ID:
Instrument: gc07.i
Sample Info: WG156298-16
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL388.D
Report Date: 05-Jan-2015 13:58

Katahdin Analytical Services

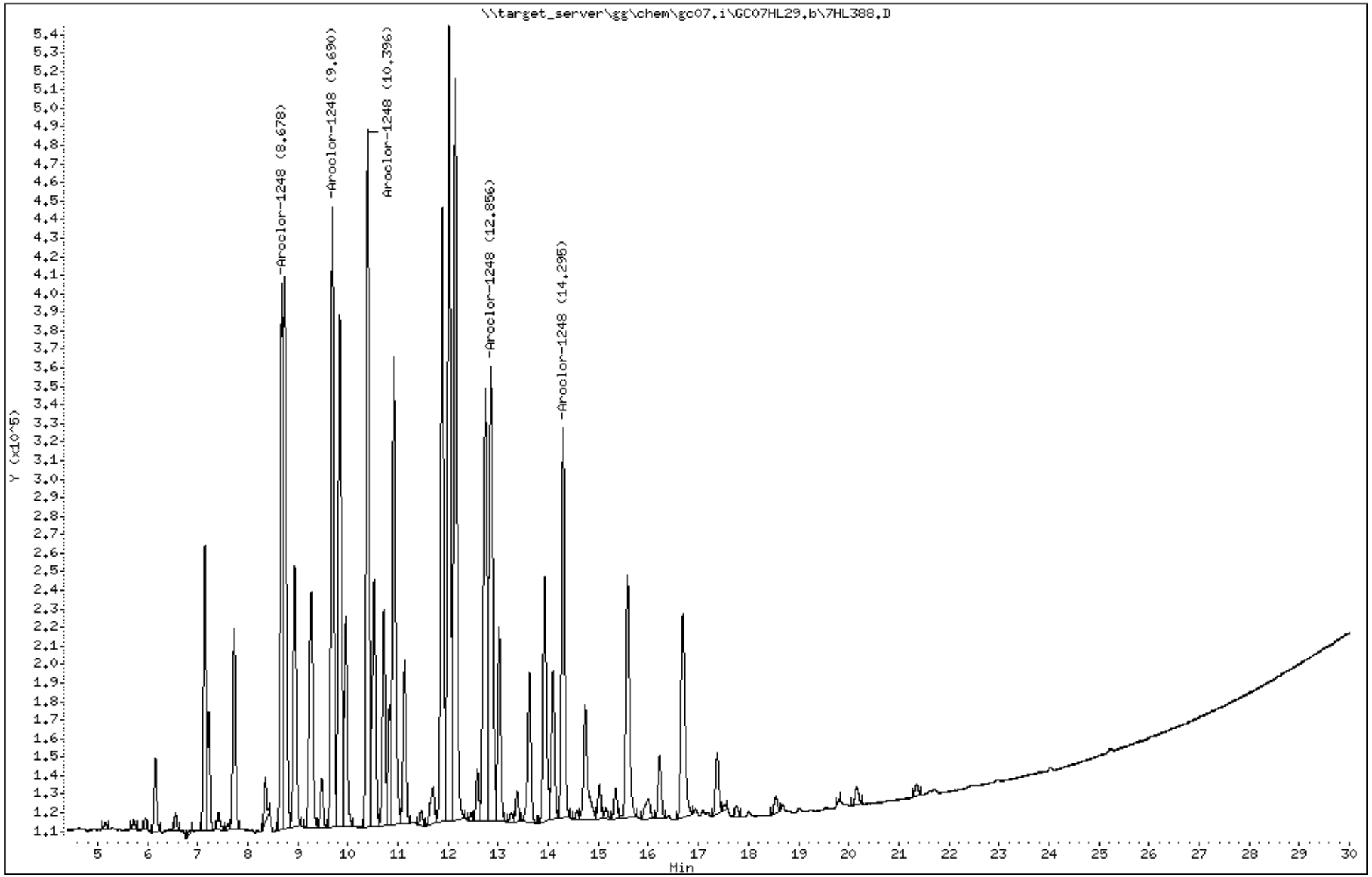
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL388.D
Lab Smp Id: WG156298-27
Inj Date : 29-DEC-2014 19:44
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-27
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 16   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1248.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor-1248					CAS #: 12672-29-6			
8.678	8.678	0.000	294706	1.00000	1.06	0.00- 0.00	100.00	
9.689	9.689	0.000	334142	1.00000	1.00	0.00- 0.00	113.38	
10.396	10.396	0.000	376789	1.00000	3.28	0.00- 0.00	127.85	
12.856	12.856	0.000	245357	1.00000	1.04	0.00- 0.00	83.25	
14.294	14.294	0.000	210695	1.00000	1.00	0.00- 0.00	71.49	
Average of Peak Amounts =					1.47600			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL388.D
Date : 29-DEC-2014 19:44
Client ID:
Instrument: gc07.i
Sample Info: WG156298-27
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7HL388.D
Report Date: 05-Jan-2015 14:03

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL388.D
Lab Smp Id: WG156298-28
Inj Date : 29-DEC-2014 19:44
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-28
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 16   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1248.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

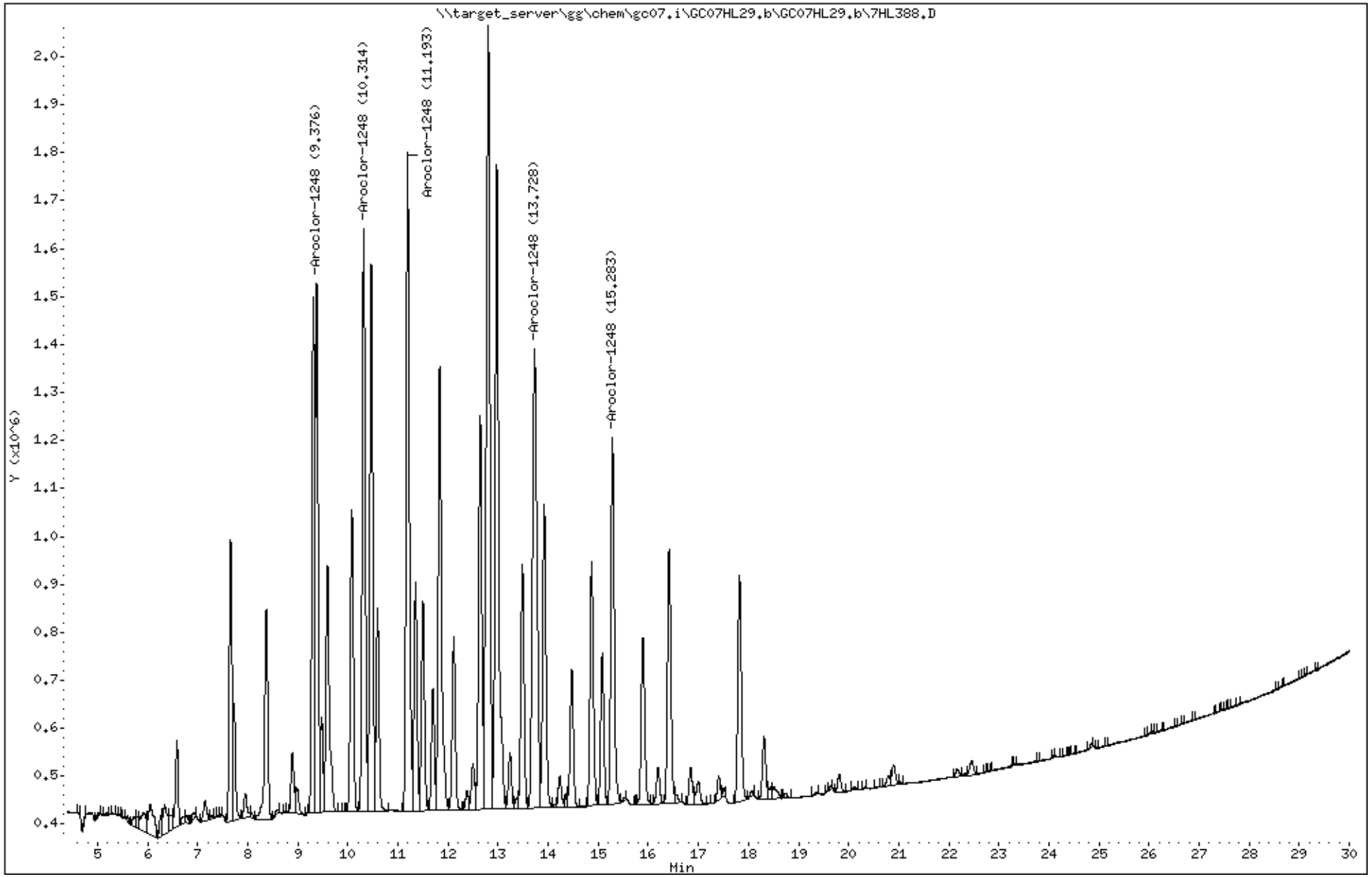
Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor-1248					CAS #: 12672-29-6			
9.376	9.376	0.000	1101353	1.00000	0.878	0.00- 0.00	100.00	
10.314	10.314	0.000	1213722	1.00000	0.862	0.00- 0.00	110.20	
11.192	11.192	0.000	1373572	1.00000	1.67	0.00- 0.00	124.72	
13.727	13.727	0.000	956001	1.00000	1.00	0.00- 0.00	86.80	
15.282	15.282	0.000	762984	1.00000	1.00	0.00- 0.00	69.28	
Average of Peak Amounts =					1.08200			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL388.D
Date : 29-DEC-2014 19:44
Client ID:
Sample Info: WG156298-28
Purge Volume: 1.0
Column phase: ZB-MultiResidue-2

Instrument: gc07.i
Operator: JLP
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL394.D
Report Date: 05-Jan-2015 13:58

Katahdin Analytical Services

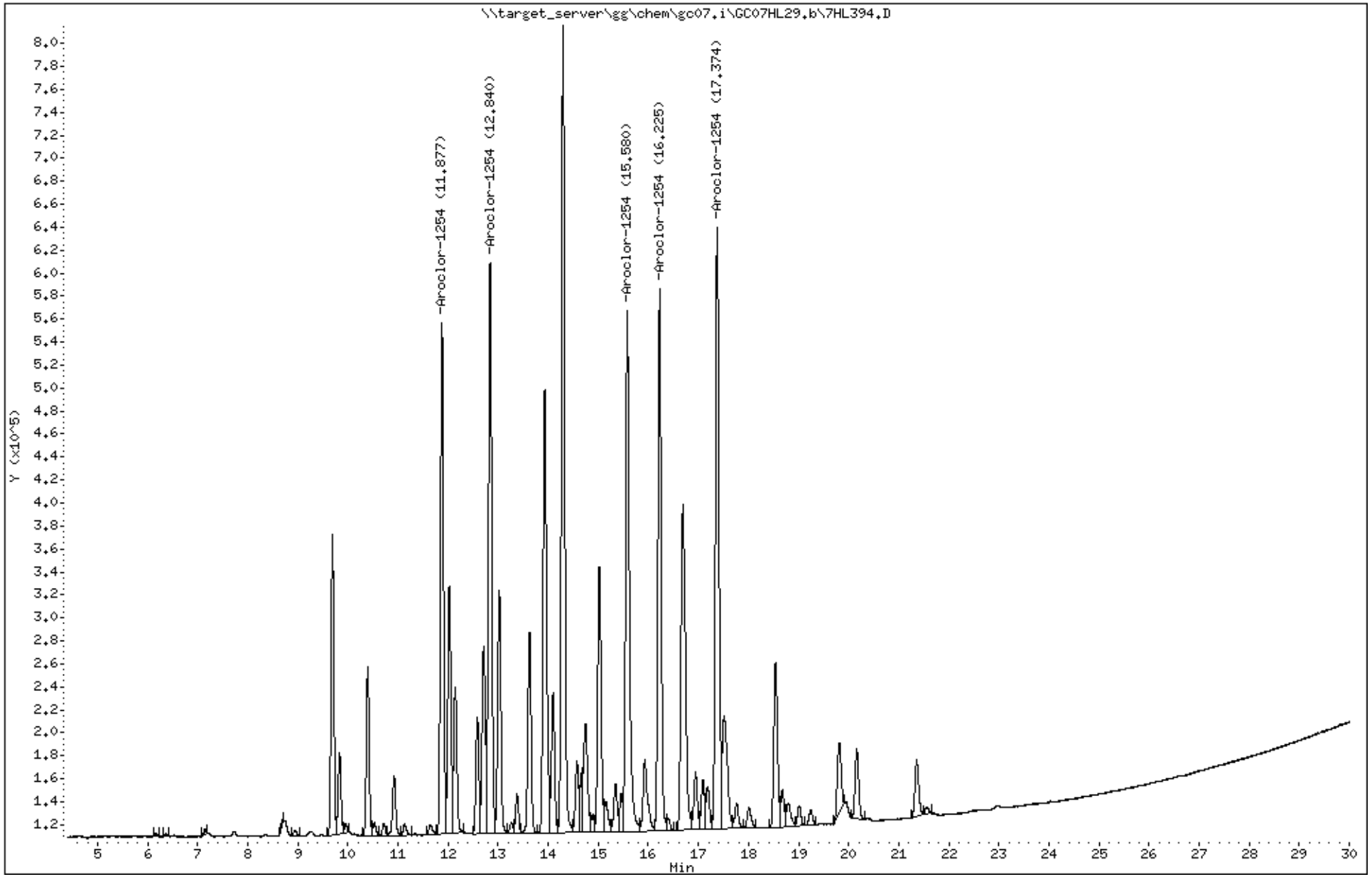
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL394.D
Lab Smp Id: WG156298-39
Inj Date : 29-DEC-2014 23:12
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-39
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 22   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1254.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
8 Aroclor-1254					CAS #: 11097-69-1			
11.877	11.877	0.000	444344	1.00000	2.51	80.00- 120.00	100.00	
12.840	12.840	0.000	496987	1.00000	1.92	80.00- 120.00	111.85	
15.580	15.580	0.000	453969	1.00000	2.66	80.00- 120.00	102.17	
16.225	16.225	0.000	471894	1.00000	1.00	80.00- 120.00	106.20	
17.373	17.373	0.000	522974	1.00000	2.90	0.00- 0.00	117.70	
Average of Peak Amounts =					2.19800			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL394.D
Date : 29-DEC-2014 23:12
Client ID:
Instrument: gc07.i
Sample Info: WG156298-39
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7HL394.D
Report Date: 05-Jan-2015 14:03

Katahdin Analytical Services

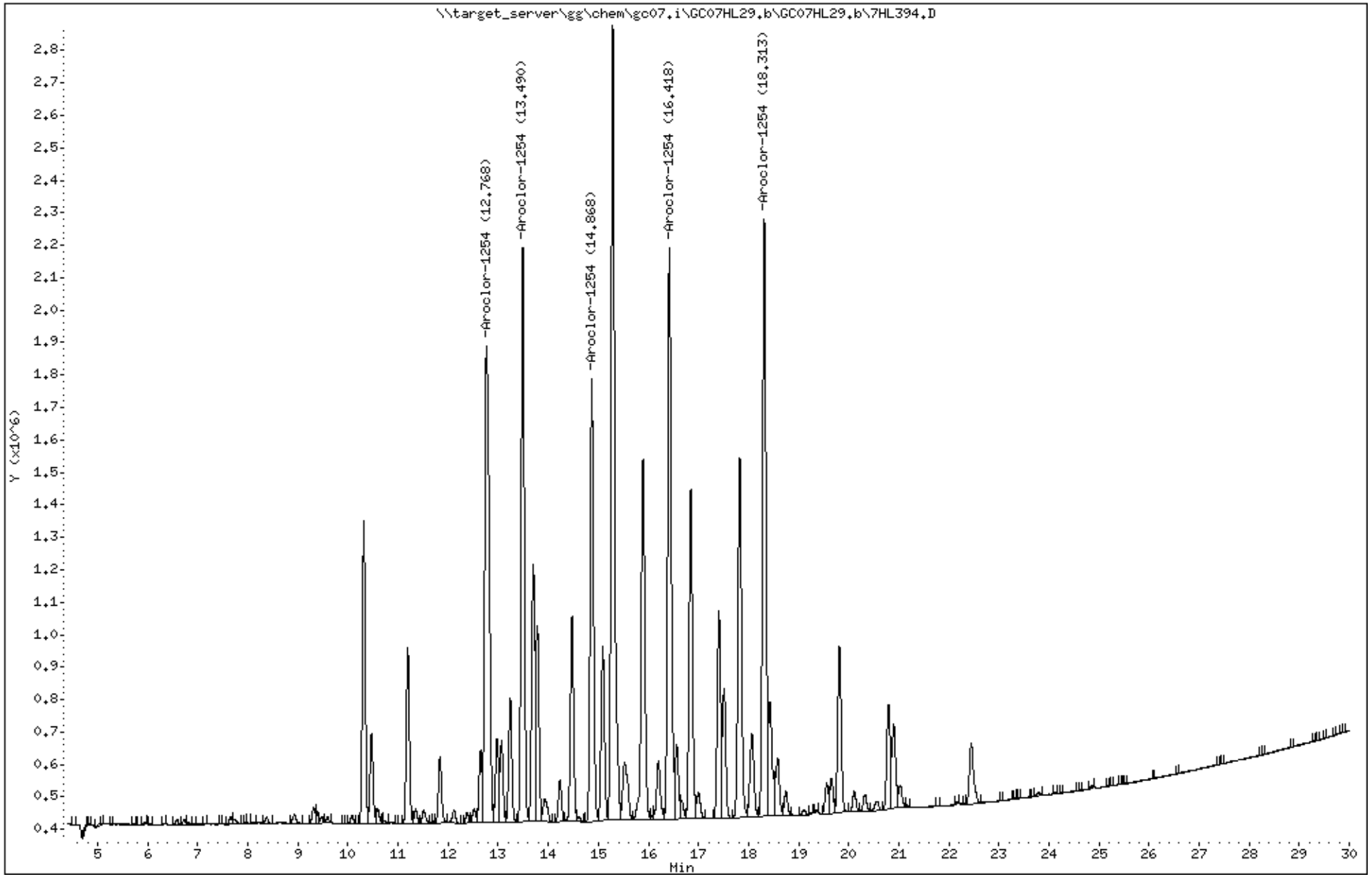
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL394.D
Lab Smp Id: WG156298-40
Inj Date : 29-DEC-2014 23:12
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-40
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 22   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1254.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
8 Aroclor-1254					CAS #: 11097-69-1			
12.768	12.768	0.000	1466999	1.00000	3.22	80.00- 120.00	100.00	
13.490	13.490	0.000	1768903	1.00000	1.80	80.00- 120.00	120.58	
14.868	14.868	0.000	1360980	1.00000	2.00	80.00- 120.00	92.77	
16.418	16.418	0.000	1758841	1.00000	3.66	80.00- 120.00	119.89	
18.313	18.313	0.000	1837360	1.00000	4.26	80.00- 120.00	125.25	
		Average of Peak Amounts =			2.98800			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL394.D
Date : 29-DEC-2014 23:12
Client ID:
Instrument: gc07.i
Sample Info: WG156298-40
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



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Report Date: 05-Jan-2015 13:58

Katahdin Analytical Services

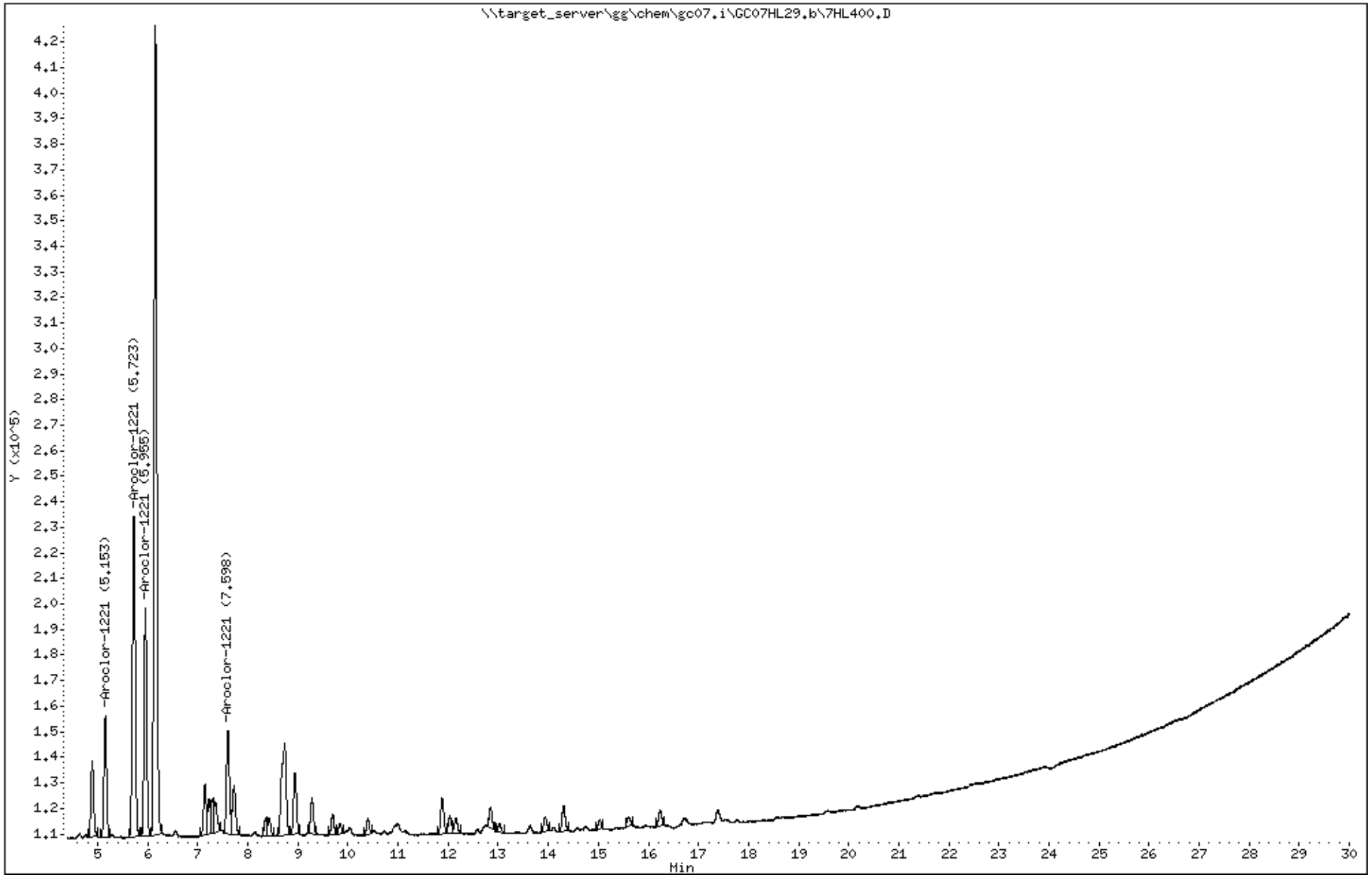
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL400.D
Lab Smp Id: WG156298-51
Inj Date : 30-DEC-2014 02:39
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-51
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 28   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1221.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS					
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
2 Aroclor-1221					CAS #: 11104-28-2			
5.153	5.153	0.000	47451	1.00000	1.00	0.00- 0.00	100.00	
5.723	5.723	0.000	125218	1.00000	1.00	0.00- 0.00	263.89	
5.955	5.955	0.000	89334	1.00000	1.00	0.00- 0.00	188.27	
7.598	7.598	0.000	40360	1.00000	1.00	0.00- 0.00	85.06	
		Average of Peak Amounts =		1.00000				

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL400.D
Date : 30-DEC-2014 02:39
Client ID:
Instrument: gc07.i
Sample Info: WG156298-51
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7HL400.D
Report Date: 05-Jan-2015 14:04

Katahdin Analytical Services

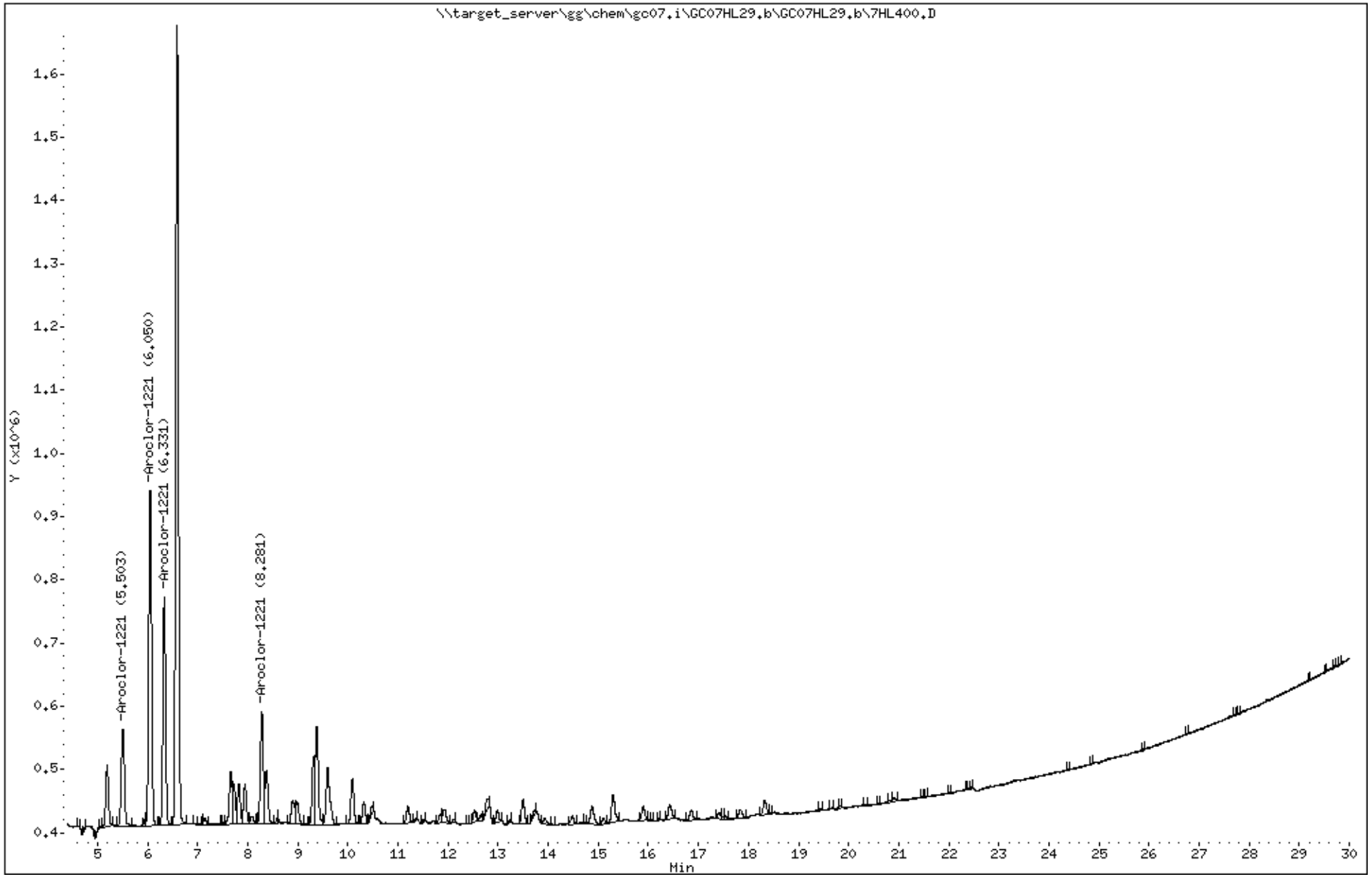
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL400.D
Lab Smp Id: WG156298-52
Inj Date : 30-DEC-2014 02:39
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-52
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 28   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1221.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor-1221					CAS #: 11104-28-2			
5.503	5.503	0.000	152419	1.00000	1.00	0.00- 0.00	100.00	
6.049	6.049	0.000	530950	1.00000	1.00	0.00- 0.00	348.35	
6.331	6.331	0.000	359933	1.00000	1.00	0.00- 0.00	236.15	
8.281	8.281	0.000	177296	1.00000	1.00	0.00- 0.00	116.32	
Average of Peak Amounts =					1.00000			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL400.D
Date : 30-DEC-2014 02:39
Client ID:
Instrument: gc07.i
Sample Info: WG156298-52
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL406.D
Report Date: 05-Jan-2015 13:58

Katahdin Analytical Services

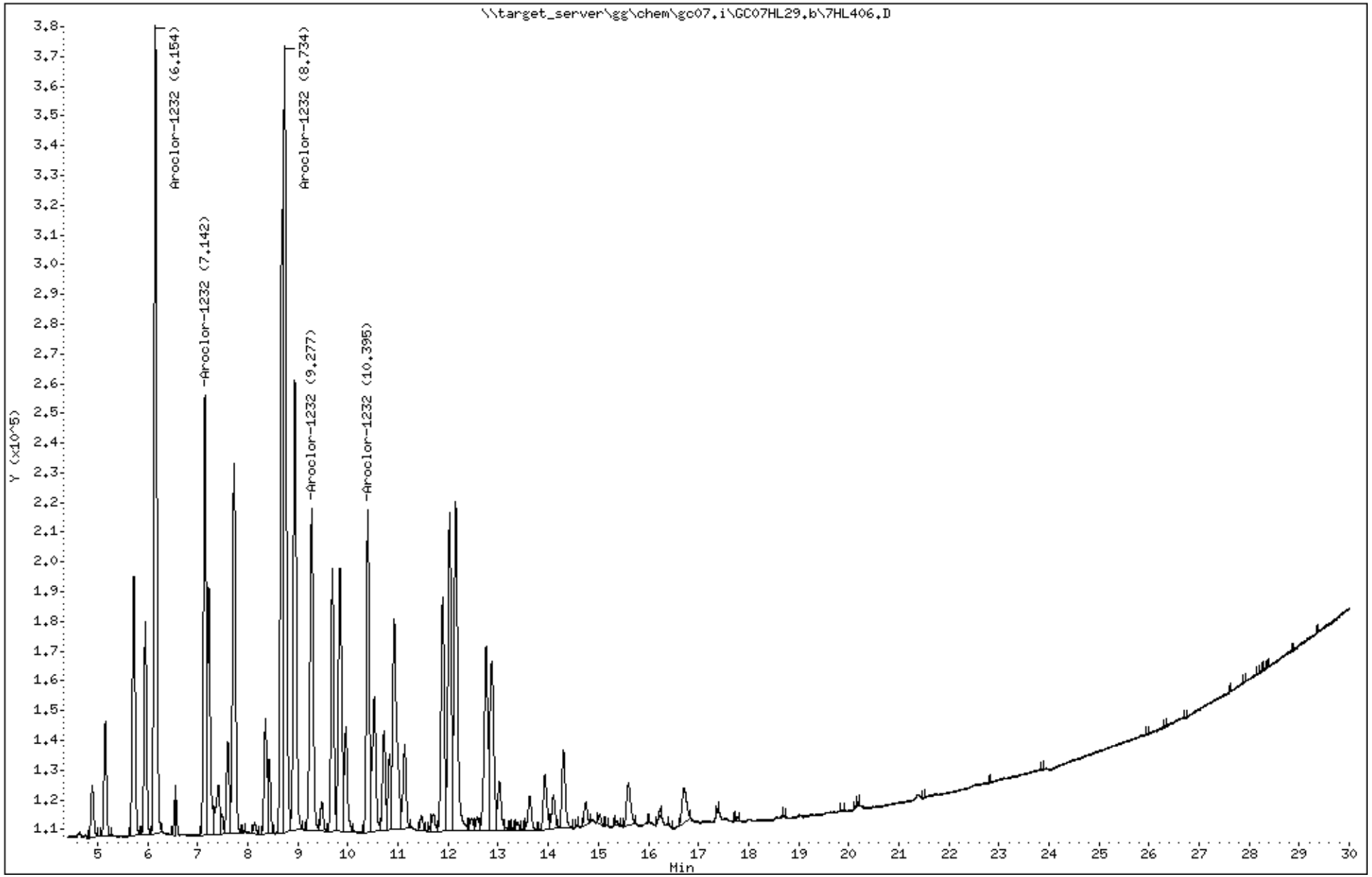
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL406.D
Lab Smp Id: WG156298-63
Inj Date : 30-DEC-2014 06:07
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-63
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m
Meth Date : 30-Dec-2014 12:02 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 34   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1232.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor-1232					CAS #: 11141-16-5			
6.153	6.154	-0.001	271768	1.00000	0.916	0.00- 0.00	100.00	
7.141	7.142	-0.001	148139	1.00000	0.958	0.00- 0.00	54.51	
8.733	8.734	-0.001	264304	1.00000	1.07	0.00- 0.00	97.25	
9.276	9.277	-0.001	108355	1.00000	1.00	0.00- 0.00	39.87	
10.395	10.395	0.000	108548	1.00000	1.00	0.00- 0.00	39.94	
Average of Peak Amounts =					0.98880			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\7HL406.D
Date : 30-DEC-2014 06:07
Client ID:
Instrument: gc07.i
Sample Info: WG156298-63
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7HL406.D
Report Date: 05-Jan-2015 14:04

Katahdin Analytical Services

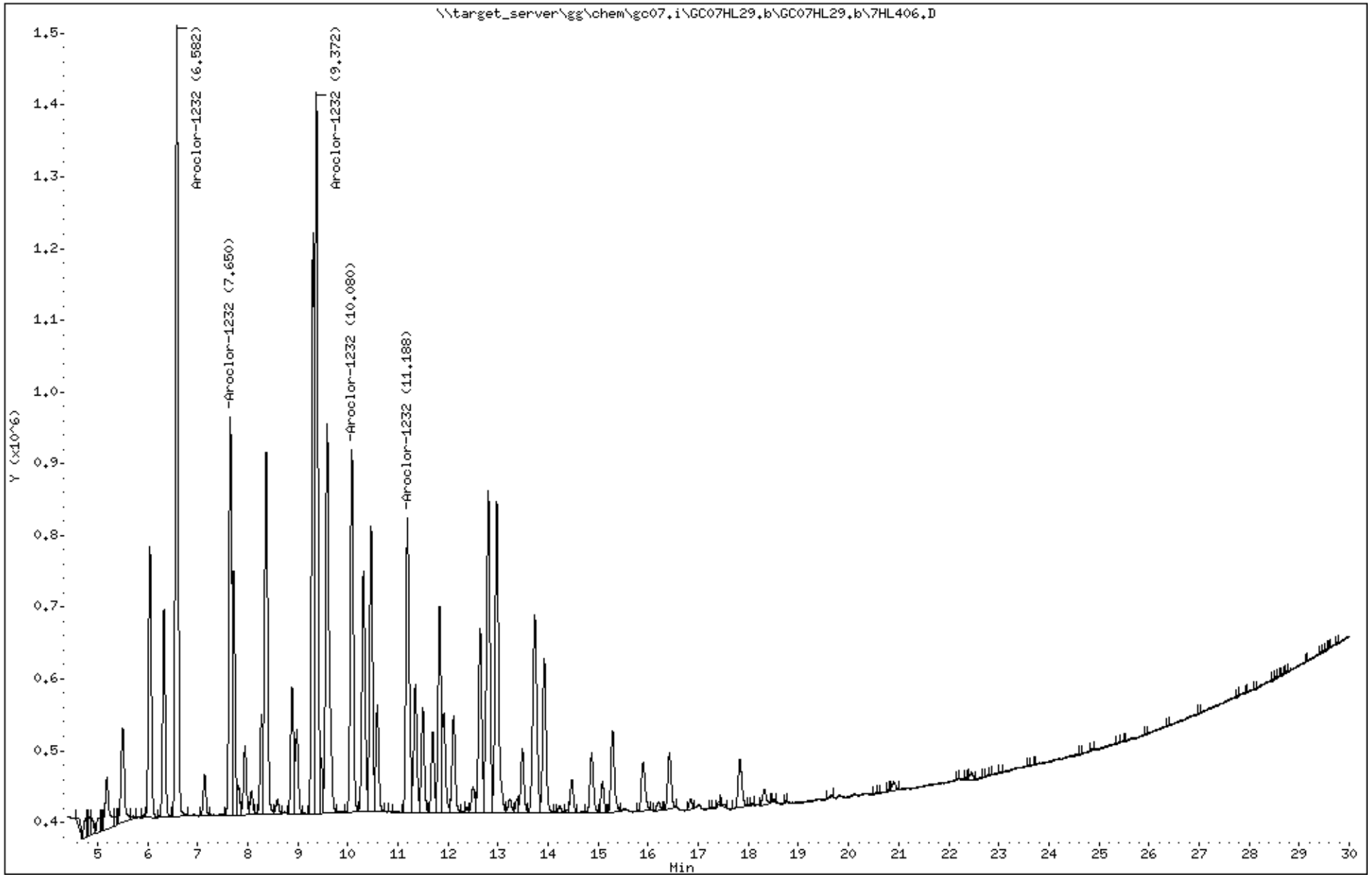
Data file : \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL406.D
Lab Smp Id: WG156298-64
Inj Date : 30-DEC-2014 06:07
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156298-64
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07HL29.b\PCB078.m\PCB078.m
Meth Date : 30-Dec-2014 12:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 34   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1232.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor-1232					CAS #: 11141-16-5			
6.581	6.582	-0.001	1102206	1.00000	0.904	0.00- 0.00	100.00	
7.649	7.650	-0.001	555475	1.00000	0.954	0.00- 0.00	50.40	
9.371	9.372	-0.001	1006587	1.00000	1.10	0.00- 0.00	91.32	
10.079	10.080	-0.001	505261	1.00000	0.922	0.00- 0.00	45.84	
11.188	11.188	0.000	410454	1.00000	0.932	0.00- 0.00	37.24	
Average of Peak Amounts =					0.96240			

Data File: \\target_server\gg\chem\gc07.i\GC07HL29.b\GC07HL29.b\7HL406.D
Date : 30-DEC-2014 06:07
Client ID:
Instrument: gc07.i
Sample Info: WG156298-64
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I **SDG:** SI0230
Lab ID : WG156982-1 **Analytical Date:** 01/15/15 10:39
Lab File ID : 7IA233.D **Instrument ID:** GC07
Initial Calibration Date(s): 12/29/14 10:27 12/30/14 10:10 **Column ID:** A

	Compound	RRF/Amount	RF1	CCAL RRF1	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
6	Aroclor-1016(4)	239009	238640	238640	0.001	-0.15426	20.00000	Averaged
6	Aroclor-1016(5)	251767	257202	257202	0.001	2.15885	20.00000	Averaged
6	Aroclor-1016(2)	263021	266391	266391	0.001	1.28141	20.00000	Averaged
6	Aroclor-1016(1)	320717	316107	316107	0.001	-1.43732	20.00000	Averaged
6	Aroclor-1016(3)	590889	583067	583067	0.001	-1.32375	20.00000	Averaged
9	Aroclor-1260(4)	415294	429897	429897	0.001	3.51627	20.00000	Averaged
9	Aroclor-1260(1)	502553	504530	504530	0.001	0.39342	20.00000	Averaged
9	Aroclor-1260(5)	611057	581548	581548	0.001	-4.82922	20.00000	Averaged
9	Aroclor-1260(3)	661283	653094	653094	0.001	-1.23832	20.00000	Averaged
9	Aroclor-1260(2)	777892	755377	755377	0.001	-2.89439	20.00000	Averaged
3	Tetrachloro-m-xylene	14574327	14783650	14783650	0.001	1.43625	20.00000	Averaged
12	Decachlorobiphenyl	10210134	10701750	10701750	0.001	4.81498	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA233.D
Report Date: 23-Jan-2015 08:06

Katahdin Analytical Services

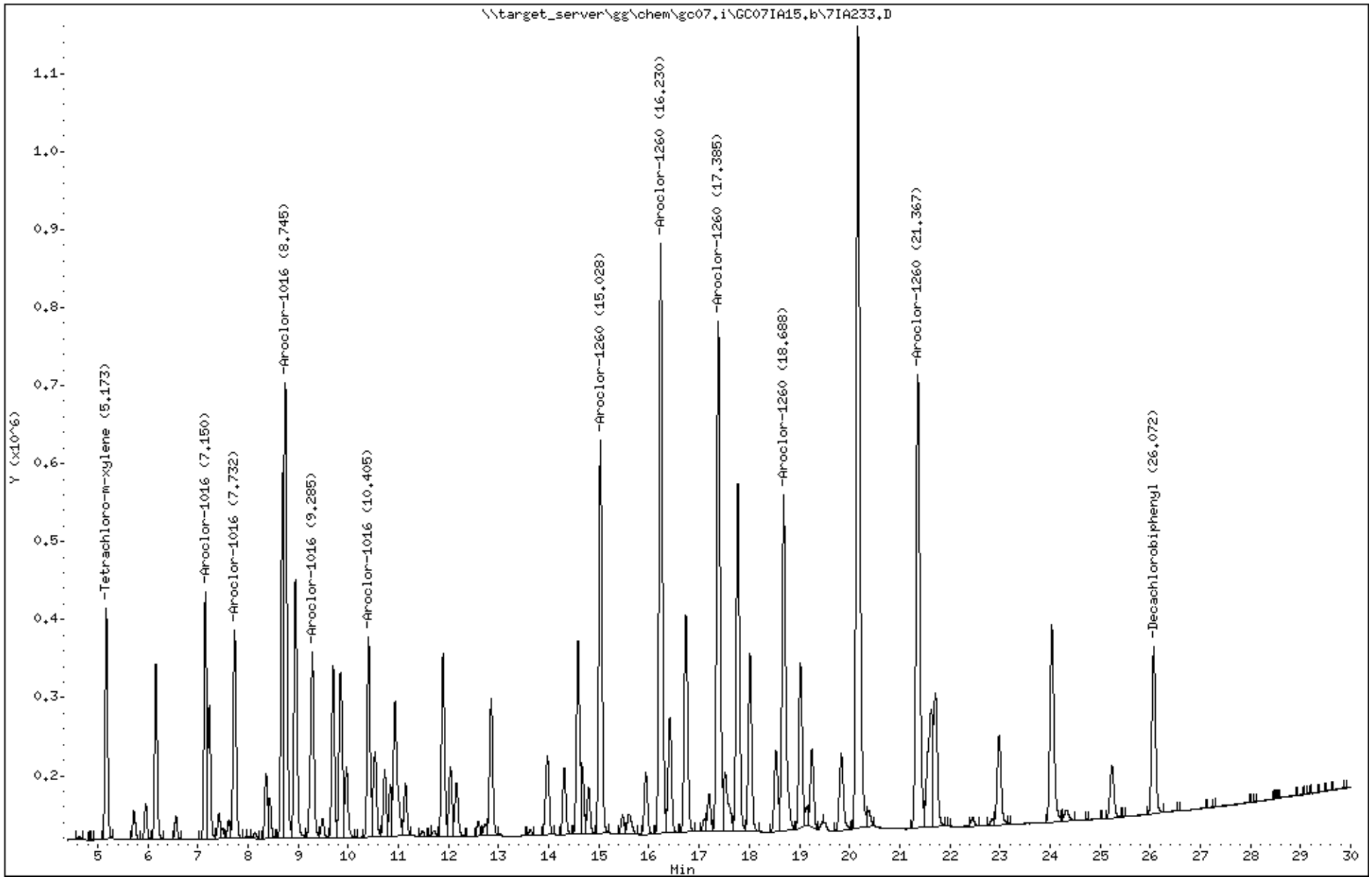
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA233.D
Lab Smp Id: WG156982-1
Inj Date : 15-JAN-2015 10:39
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156982-1,SI0230
Misc Info : WG156982,WG156982,WG156298,SI0230-2
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m
Meth Date : 16-Jan-2015 13:43 kasgc   Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.173	5.161	0.012	295673	0.02000	0.0203			
6 Aroclor-1016						CAS #: 12674-11-2		
7.149	7.134	0.015	316107	1.00000	0.986	80.00- 120.00	100.00	
7.731	7.719	0.012	266391	1.00000	1.01	158.77- 238.15	84.27	
8.744	8.731	0.013	583067	1.00000	0.987	296.98- 445.46	184.45	
9.284	9.271	0.013	238640	1.00000	0.998	114.78- 172.16	75.49	
10.404	10.389	0.015	257202	1.00000	1.02	112.32- 168.48	81.37	
	Average of Peak Amounts =				1.00020			
9 Aroclor-1260						CAS #: 11096-82-5		
15.028	15.014	0.014	504530	1.00000	1.00	80.00- 120.00	100.00	
16.229	16.221	0.008	755377	1.00000	0.971	94.69- 142.03	149.72	
17.384	17.373	0.011	653094	1.00000	0.988	89.28- 133.92	129.45	
18.688	18.671	0.017	429897	1.00000	1.04	72.48- 108.72	85.21	
21.366	21.358	0.008	581548	1.00000	0.952	0.00- 0.00	115.27	
	Average of Peak Amounts =				0.99020			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.071	26.051	0.020	214035	0.02000	0.0210			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA233.D
Date : 15-JAN-2015 10:39
Client ID:
Instrument: gc07.i
Sample Info: WG156982-1,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I **SDG:** SI0230
Lab ID : WG156982-2 **Analytical Date:** 01/15/15 10:39
Lab File ID : 7IA233.D **Instrument ID:** GC07
Initial Calibration Date(s): 12/29/14 10:27 12/30/14 10:10 **Column ID:** B

	Compound	RRF/Amount	RF1	CCAL RRF1	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
5	Aroclor-1016(4)	1037586	1081820	1081820	0.001	4.26319	20.00000	Averaged
5	Aroclor-1016(1)	1136455	1166259	1166259	0.001	2.62257	20.00000	Averaged
5	Aroclor-1016(3)	2070395	2115932	2115932	0.001	2.19942	20.00000	Averaged
5	Aroclor-1016(5)	874047	921102	921102	0.001	5.38355	20.00000	Averaged
5	Aroclor-1016(2)	998796	1036609	1036609	0.001	3.78586	20.00000	Averaged
9	Aroclor-1260(4)	1313912	1403996	1403996	0.001	6.85616	20.00000	Averaged
9	Aroclor-1260(1)	1596010	1627374	1627374	0.001	1.96517	20.00000	Averaged
9	Aroclor-1260(5)	1833078	1998898	1998898	0.001	9.04600	20.00000	Averaged
9	Aroclor-1260(3)	1938748	2011910	2011910	0.001	3.77367	20.00000	Averaged
9	Aroclor-1260(2)	2002277	2078335	2078335	0.001	3.79856	20.00000	Averaged
2	Tetrachloro-m-xylene	60275788	60989400	60989400	0.001	1.18391	20.00000	Averaged
12	Decachlorobiphenyl	24490588	25299850	25299850	0.001	3.30438	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: 7IA233.D
Report Date: 23-Jan-2015 08:07

Katahdin Analytical Services

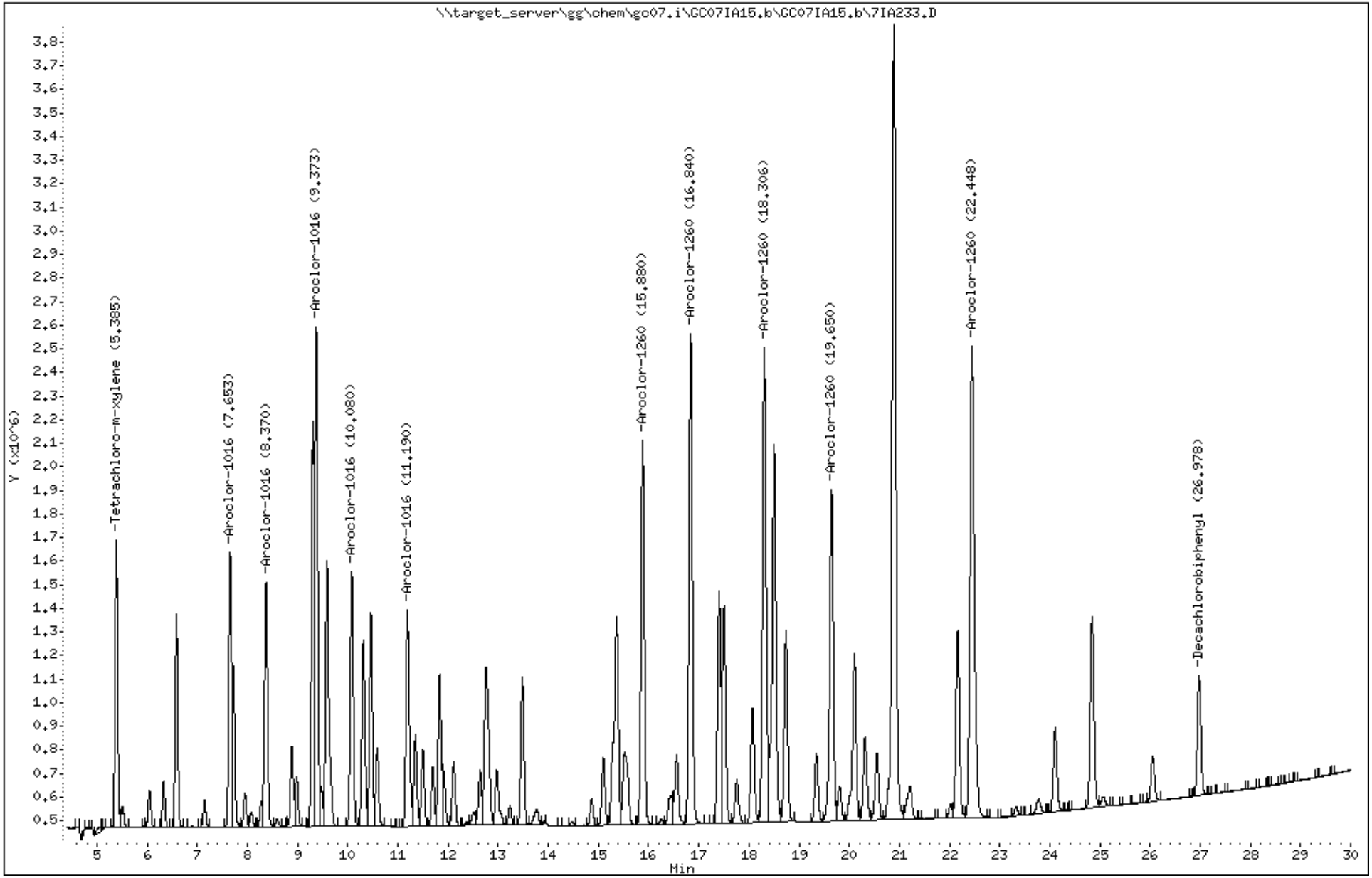
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA233.D
Lab Smp Id: WG156982-2
Inj Date : 15-JAN-2015 10:39
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156982-2,SI0230
Misc Info : WG156982,WG156982,WG156298,SI0230-2
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m\PCB078.m
Meth Date : 16-Jan-2015 13:52 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.384	5.371	0.013	1219788	0.02000	0.0202			
5 Aroclor-1016						CAS #: 12674-11-2		
7.652	7.636	0.016	1166259	1.00000	1.03	80.00- 120.00	100.00	
8.369	8.352	0.017	1036609	1.00000	1.04	158.77- 238.15	88.88	
9.372	9.356	0.016	2115932	1.00000	1.02	296.98- 445.46	181.43	
10.079	10.059	0.020	1081820	1.00000	1.04	114.78- 172.17	92.76	
11.189	11.172	0.017	921102	1.00000	1.05	112.32- 168.48	78.98	
Average of Peak Amounts =					1.03600			
9 Aroclor-1260						CAS #: 11096-82-5		
15.879	15.859	0.020	1627374	1.00000	1.02	80.00- 120.00	100.00	
16.839	16.814	0.025	2078335	1.00000	1.04	94.69- 142.03	127.71	
18.306	18.287	0.019	2011910	1.00000	1.04	89.28- 133.92	123.63	
19.649	19.627	0.022	1403996	1.00000	1.07	72.48- 108.72	86.27	
22.447	22.424	0.023	1998898	1.00000	1.09	0.00- 0.00	122.83	
Average of Peak Amounts =					1.05200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.977	26.957	0.020	505997	0.02000	0.0207			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA233.D
Date : 15-JAN-2015 10:39
Client ID:
Instrument: gc07.i
Sample Info: WG156982-2,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: SI0230
Lab ID : WG156982-4
Analytical Date: 01/15/15 18:15
Lab File ID : 7IA246.D
Instrument ID: GC07
Initial Calibration Date(s): 12/29/14 10:27 12/30/14 10:10
Column ID: B

	Compound	$\overline{RRF}$/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
5	Aroclor-1016(4)	1037586	1202424	1202424	0.001	15.88672	20.00000	Averaged	
5	Aroclor-1016(1)	1136455	1344924	1344924	0.001	18.34383	20.00000	Averaged	
5	Aroclor-1016(3)	2070395	2366824	2366824	0.001	14.31749	20.00000	Averaged	
5	Aroclor-1016(5)	874047	1065660	1065660	0.001	21.92247	20.00000	Averaged	*
5	Aroclor-1016(2)	998796	1168284	1168284	0.001	16.96923	20.00000	Averaged	
9	Aroclor-1260(4)	1313912	1525544	1525544	0.001	16.10700	20.00000	Averaged	
9	Aroclor-1260(1)	1596010	1873916	1873916	0.001	17.41257	20.00000	Averaged	
9	Aroclor-1260(5)	1833078	2138876	2138876	0.001	16.68223	20.00000	Averaged	
9	Aroclor-1260(3)	1938748	2180292	2180292	0.001	12.45876	20.00000	Averaged	
9	Aroclor-1260(2)	2002277	2342888	2342888	0.001	17.01117	20.00000	Averaged	
2	Tetrachloro-m-xylene	60275788	67911400	67911400	0.001	12.66779	20.00000	Averaged	
12	Decachlorobiphenyl	24490588	27876600	27876600	0.001	13.82577	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: 7IA246.D
Report Date: 23-Jan-2015 08:07

Katahdin Analytical Services

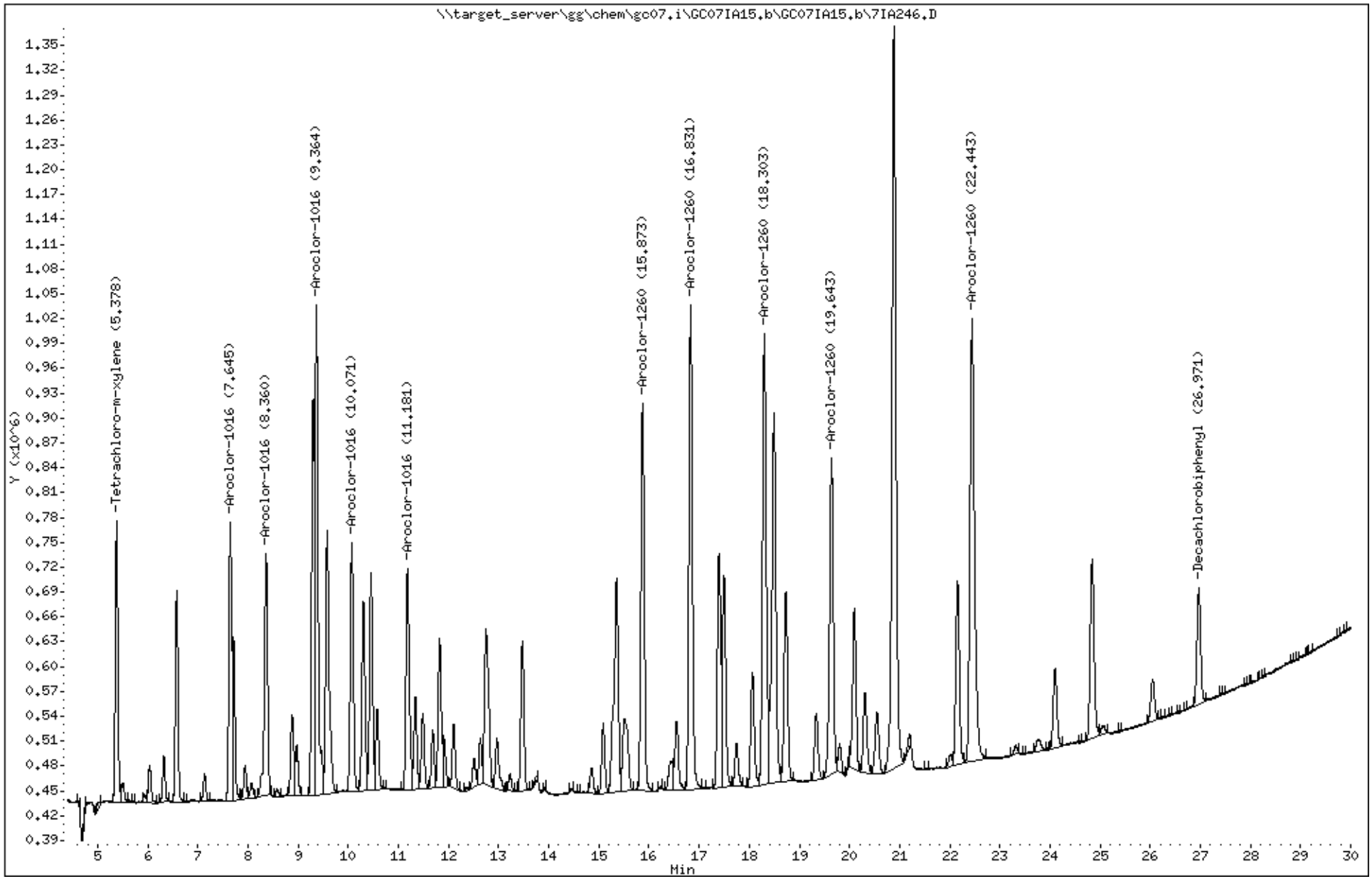
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA246.D
Lab Smp Id: WG156982-4
Inj Date : 15-JAN-2015 18:15
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156982-4,SI0230
Misc Info : WG156982,WG156982,WG156298,SI0230-2
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m\PCB078.m
Meth Date : 16-Jan-2015 13:52 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 15   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS					
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.377	5.371	0.006	339557	0.02000	0.00563			
5 Aroclor-1016						CAS #: 12674-11-2		
7.644	7.636	0.008	336231	1.00000	0.296	80.00- 120.00	100.00	
8.359	8.352	0.007	292071	1.00000	0.292	158.77- 238.15	86.87	
9.364	9.356	0.008	591706	1.00000	0.286	296.98- 445.46	175.98	
10.071	10.059	0.012	300606	1.00000	0.290	114.78- 172.17	89.40	
11.181	11.172	0.009	266415	1.00000	0.305	112.32- 168.48	79.24	
Average of Peak Amounts =					0.29380			
9 Aroclor-1260						CAS #: 11096-82-5		
15.872	15.859	0.013	468479	1.00000	0.294	80.00- 120.00	100.00	
16.831	16.814	0.017	585722	1.00000	0.292	94.69- 142.03	125.03	
18.302	18.287	0.015	545073	1.00000	0.281	89.28- 133.92	116.35	
19.642	19.627	0.015	381386	1.00000	0.290	72.48- 108.72	81.41	
22.442	22.424	0.018	534719	1.00000	0.292	0.00- 0.00	114.14	
Average of Peak Amounts =					0.28980			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.971	26.957	0.014	139383	0.02000	0.00569			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA246.D
Date : 15-JAN-2015 18:15
Client ID:
Instrument: gc07.i
Sample Info: WG156982-4,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: SI0230
Lab ID : WG156982-3
Analytical Date: 01/15/15 18:15
Lab File ID : 7IA246.D
Instrument ID: GC07
Initial Calibration Date(s): 12/29/14 10:27 12/30/14 10:10
Column ID: A

	Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
6	Aroclor-1016(4)	239009	240260	240260	0.001	0.52354	20.00000	Averaged
6	Aroclor-1016(5)	251767	272120	272120	0.001	8.08418	20.00000	Averaged
6	Aroclor-1016(2)	263021	280456	280456	0.001	6.62890	20.00000	Averaged
6	Aroclor-1016(1)	320717	346624	346624	0.001	8.07793	20.00000	Averaged
6	Aroclor-1016(3)	590889	596744	596744	0.001	0.99089	20.00000	Averaged
9	Aroclor-1260(4)	415294	414400	414400	0.001	-0.21531	20.00000	Averaged
9	Aroclor-1260(1)	502553	532752	532752	0.001	6.00915	20.00000	Averaged
9	Aroclor-1260(5)	611057	513960	513960	0.001	-15.89005	20.00000	Averaged
9	Aroclor-1260(3)	661283	587240	587240	0.001	-11.19684	20.00000	Averaged
9	Aroclor-1260(2)	777892	756016	756016	0.001	-2.81224	20.00000	Averaged
3	Tetrachloro-m-xylene	14574327	15107200	15107200	0.001	3.65625	20.00000	Averaged
12	Decachlorobiphenyl	10210134	11436400	11436400	0.001	12.01028	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA246.D
Report Date: 23-Jan-2015 08:06

Katahdin Analytical Services

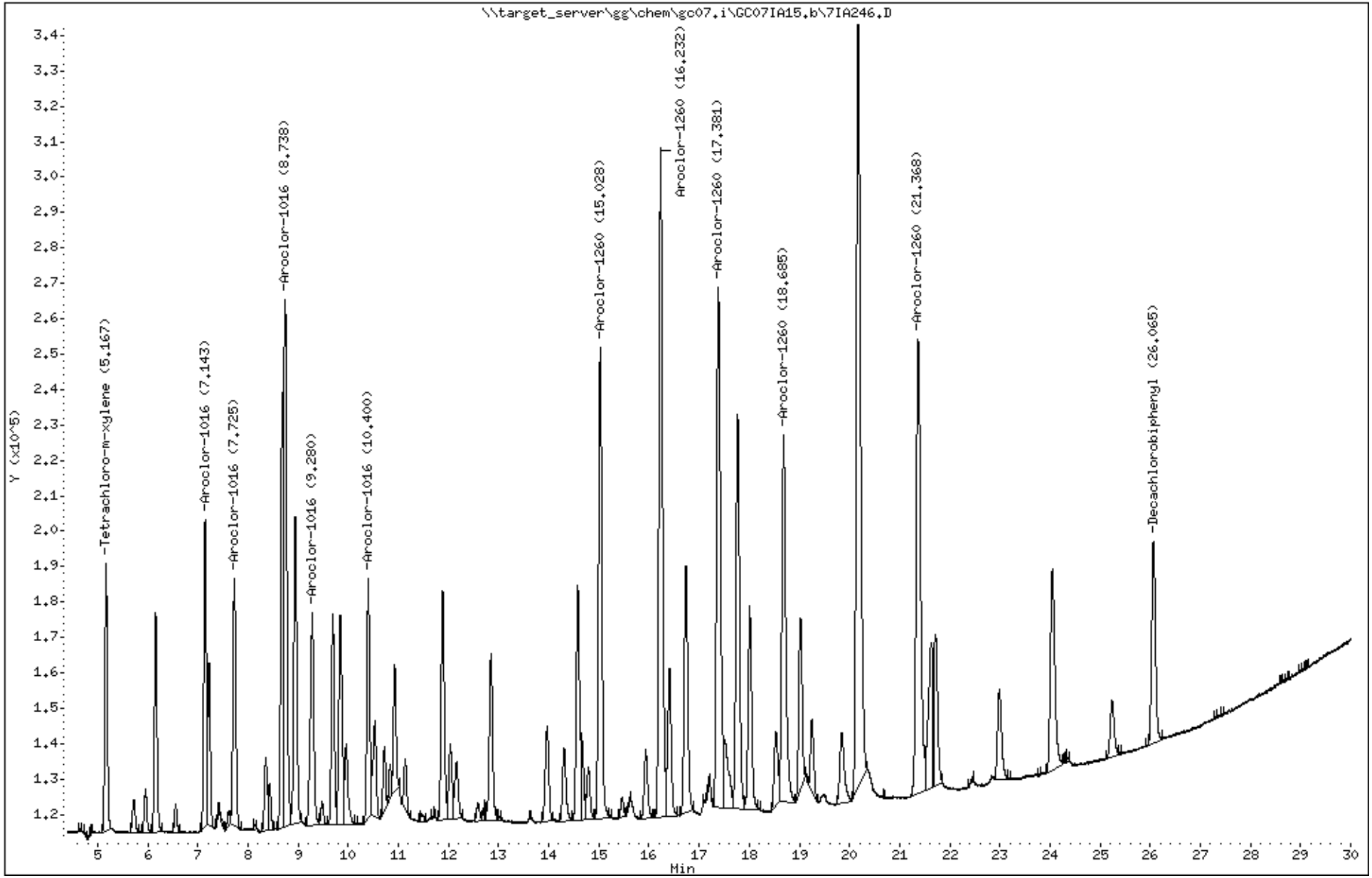
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA246.D
Lab Smp Id: WG156982-3
Inj Date : 15-JAN-2015 18:15
Operator : JLP   Inst ID: gc07.i
Smp Info : WG156982-3,SI0230
Misc Info : WG156982,WG156982,WG156298,SI0230-2
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m
Meth Date : 16-Jan-2015 13:43 kasgc   Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 15   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.166	5.161	0.005	75536	0.02000	0.00518			
6 Aroclor-1016					CAS #: 12674-11-2			
7.143	7.134	0.009	86656	1.00000	0.270	80.00- 120.00	100.00	
7.724	7.719	0.005	70114	1.00000	0.266	158.77- 238.15	80.91	
8.738	8.731	0.007	149186	1.00000	0.252	296.98- 445.46	172.16	
9.279	9.271	0.008	60065	1.00000	0.251	114.78- 172.16	69.31	
10.399	10.389	0.010	68030	1.00000	0.270	112.32- 168.48	78.51	
	Average of Peak Amounts =				0.26180			
9 Aroclor-1260					CAS #: 11096-82-5			
15.028	15.014	0.014	133188	1.00000	0.265	80.00- 120.00	100.00	
16.231	16.221	0.010	189004	1.00000	0.243	94.69- 142.03	141.91	
17.381	17.373	0.008	146810	1.00000	0.222	89.28- 133.92	110.23	
18.684	18.671	0.013	103600	1.00000	0.249	72.48- 108.72	77.78	
21.368	21.358	0.010	128490	1.00000	0.210	0.00- 0.00	96.47	
	Average of Peak Amounts =				0.23780			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.064	26.051	0.013	57182	0.02000	0.00560			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA246.D
Date : 15-JAN-2015 18:15
Client ID:
Instrument: gc07.i
Sample Info: WG156982-3,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I **SDG:** SI0230
Lab ID : WG157171-1 **Analytical Date:** 01/19/15 10:53
Lab File ID : 7IA279.D **Instrument ID:** GC07
Initial Calibration Date(s): 12/29/14 10:27 12/30/14 10:10 **Column ID:** A

	Compound	RRF/Amount	RF1	CCAL RRF1	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
6	Aroclor-1016(4)	239009	251617	251617	0.001	5.27525	20.00000	Averaged
6	Aroclor-1016(5)	251767	266502	266502	0.001	5.85275	20.00000	Averaged
6	Aroclor-1016(2)	263021	278323	278323	0.001	5.81794	20.00000	Averaged
6	Aroclor-1016(1)	320717	332092	332092	0.001	3.54683	20.00000	Averaged
6	Aroclor-1016(3)	590889	607471	607471	0.001	2.80629	20.00000	Averaged
9	Aroclor-1260(4)	415294	429296	429296	0.001	3.37155	20.00000	Averaged
9	Aroclor-1260(1)	502553	513043	513043	0.001	2.08737	20.00000	Averaged
9	Aroclor-1260(5)	611057	606965	606965	0.001	-0.66971	20.00000	Averaged
9	Aroclor-1260(3)	661283	650613	650613	0.001	-1.61350	20.00000	Averaged
9	Aroclor-1260(2)	777892	763418	763418	0.001	-1.86070	20.00000	Averaged
3	Tetrachloro-m-xylene	14574327	15945050	15945050	0.001	9.40505	20.00000	Averaged
12	Decachlorobiphenyl	10210134	10214650	10214650	0.001	0.04423	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA279.D
Report Date: 23-Jan-2015 08:08

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA279.D
Lab Smp Id: WG157171-1
Inj Date : 19-JAN-2015 10:53
Operator : JLP   Inst ID: gc07.i
Smp Info : WG157171-1,SI0230
Misc Info : WG157171,WG157171,WG156298,SI0230-1
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m
Meth Date : 20-Jan-2015 10:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

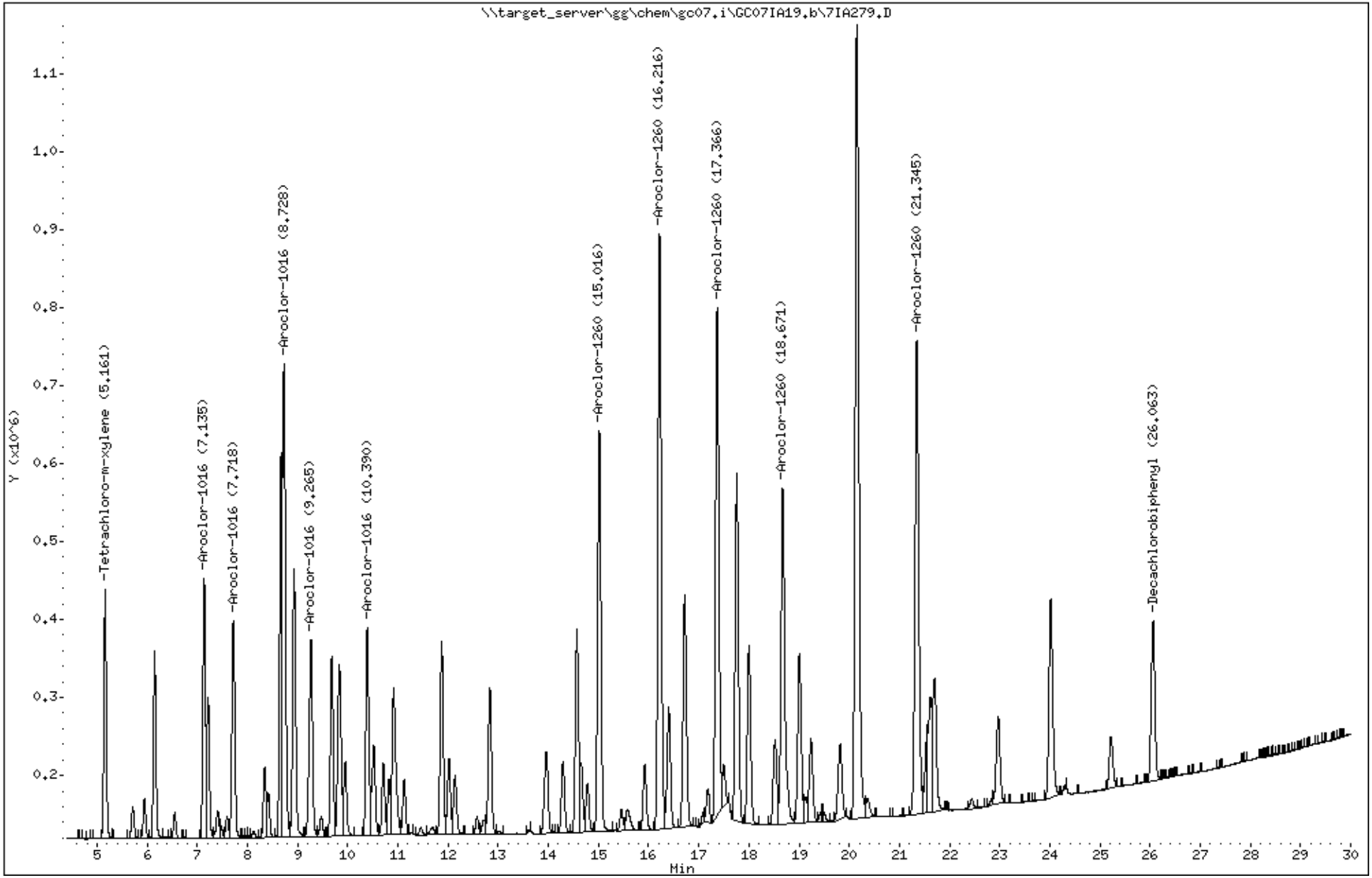
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.161	5.172	-0.011	318901	0.02000	0.0219			
6 Aroclor-1016						CAS #: 12674-11-2		
7.134	7.143	-0.009	332092	1.00000	1.04	80.00- 120.00	100.00	
7.717	7.725	-0.008	278323	1.00000	1.06	158.77- 238.15	83.81	
8.727	8.735	-0.008	607471	1.00000	1.03	296.98- 445.46	182.92	
9.264	9.272	-0.008	251617	1.00000	1.05	114.78- 172.16	75.77	
10.389	10.392	-0.003	266502	1.00000	1.06	112.32- 168.48	80.25	
	Average of Peak Amounts =				1.04800			
9 Aroclor-1260						CAS #: 11096-82-5		
15.016	15.013	0.003	513043	1.00000	1.02	80.00- 120.00	100.00	
16.216	16.218	-0.002	763418	1.00000	0.981	94.69- 142.03	148.80	
17.366	17.367	-0.001	650613	1.00000	0.984	89.28- 133.92	126.81	
18.671	18.673	-0.002	429296	1.00000	1.03	72.48- 108.72	83.68	
21.344	21.347	-0.003	606965	1.00000	0.993	0.00- 0.00	118.31	
	Average of Peak Amounts =				1.00160			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.062	26.058	0.004	204293	0.02000	0.0200			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA279.D
Date : 19-JAN-2015 10:53
Client ID:
Sample Info: WG157171-1,SI0230

Instrument: gc07.i

Operator: JLP
Column diameter: 0.53

Column phase: ZB-MultiResidue-1



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: SI0230
Lab ID : WG157171-2
Analytical Date: 01/19/15 10:53
Lab File ID : 7IA279.D
Instrument ID: GC07
Initial Calibration Date(s): 12/29/14 10:27 12/30/14 10:10
Column ID: B

	Compound	RRF/Amount	RF1	CCAL RRF1	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
5	Aroclor-1016(4)	1037586	1125796	1125796	0.001	8.50150	20.00000	Averaged
5	Aroclor-1016(1)	1136455	1199052	1199052	0.001	5.50812	20.00000	Averaged
5	Aroclor-1016(3)	2070395	2222763	2222763	0.001	7.35935	20.00000	Averaged
5	Aroclor-1016(5)	874047	931240	931240	0.001	6.54344	20.00000	Averaged
5	Aroclor-1016(2)	998796	1063913	1063913	0.001	6.51955	20.00000	Averaged
9	Aroclor-1260(4)	1313912	1411705	1411705	0.001	7.44288	20.00000	Averaged
9	Aroclor-1260(1)	1596010	1687126	1687126	0.001	5.70901	20.00000	Averaged
9	Aroclor-1260(5)	1833078	2022423	2022423	0.001	10.32936	20.00000	Averaged
9	Aroclor-1260(3)	1938748	2082769	2082769	0.001	7.42855	20.00000	Averaged
9	Aroclor-1260(2)	2002277	2168878	2168878	0.001	8.32056	20.00000	Averaged
2	Tetrachloro-m-xylene	60275788	64869600	64869600	0.001	7.62132	20.00000	Averaged
12	Decachlorobiphenyl	24490588	25706500	25706500	0.001	4.96481	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: 7IA279.D
Report Date: 23-Jan-2015 08:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA279.D
Lab Smp Id: WG157171-2
Inj Date : 19-JAN-2015 10:53
Operator : JLP   Inst ID: gc07.i
Smp Info : WG157171-2,SI0230
Misc Info : WG157171,WG157171,WG156298,SI0230-1
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m\PCB078.m
Meth Date : 20-Jan-2015 10:04 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

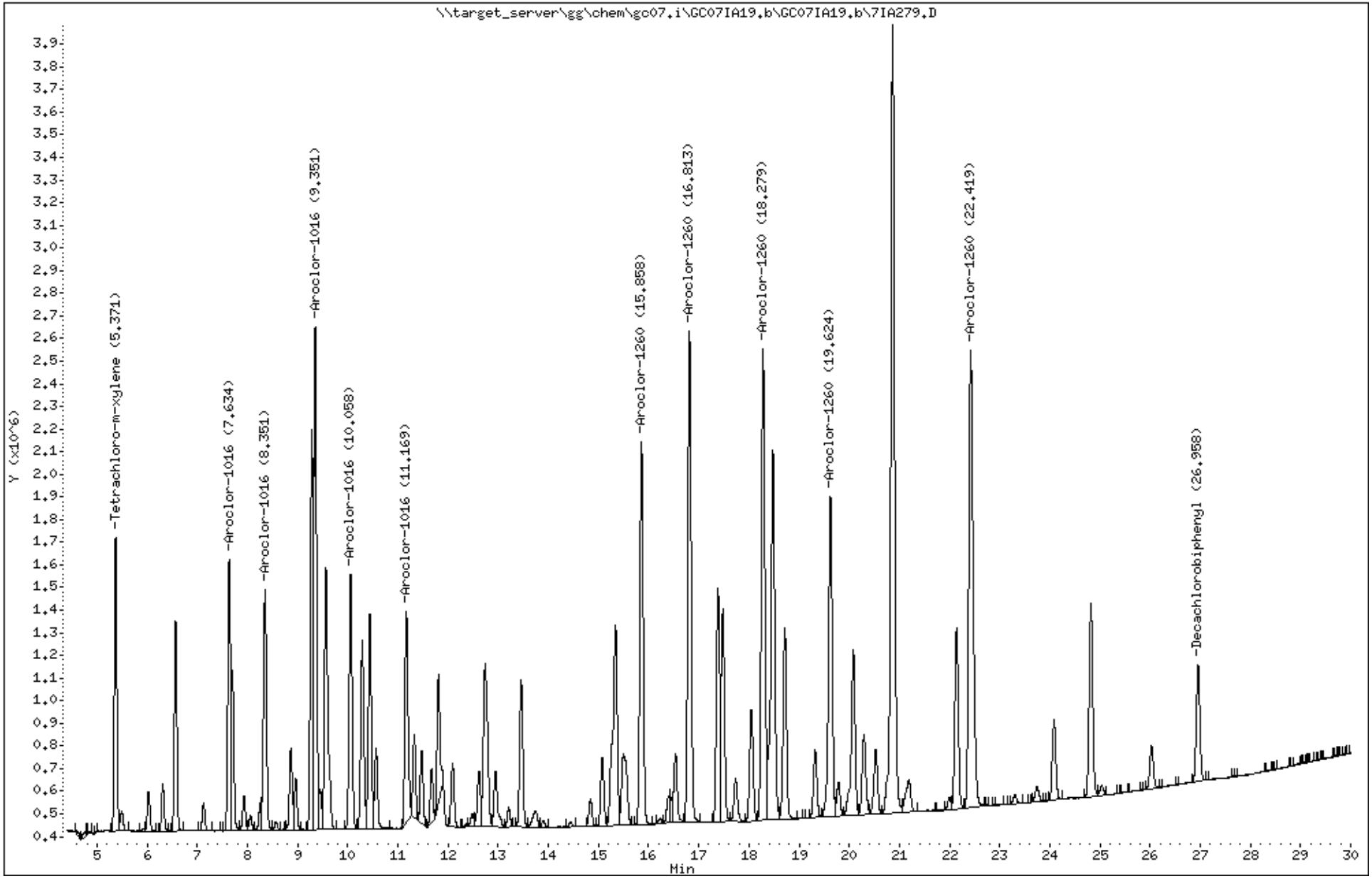
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.370	5.388	-0.018	1297392	0.02000	0.0215			
5 Aroclor-1016						CAS #: 12674-11-2		
7.634	7.649	-0.015	1199052	1.00000	1.06	80.00- 120.00	100.00	
8.350	8.363	-0.013	1063913	1.00000	1.06	158.77- 238.15	88.73	
9.350	9.364	-0.014	2222763	1.00000	1.07	296.98- 445.46	185.38	
10.057	10.068	-0.011	1125796	1.00000	1.08	114.78- 172.17	93.89	
11.169	11.181	-0.012	931240	1.00000	1.06	112.32- 168.48	77.66	
Average of Peak Amounts =					1.06600			
9 Aroclor-1260						CAS #: 11096-82-5		
15.857	15.869	-0.012	1687126	1.00000	1.06	80.00- 120.00	100.00	
16.812	16.828	-0.016	2168878	1.00000	1.08	94.69- 142.03	128.55	
18.279	18.296	-0.017	2082769	1.00000	1.07	89.28- 133.92	123.45	
19.624	19.638	-0.014	1411705	1.00000	1.07	72.48- 108.72	83.68	
22.419	22.433	-0.014	2022423	1.00000	1.10	0.00- 0.00	119.87	
Average of Peak Amounts =					1.07600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.957	26.968	-0.011	514130	0.02000	0.0210			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA279.D
Date : 19-JAN-2015 10:53
Client ID:
Sample Info: WG157171-2,SI0230

Instrument: gc07.i

Operator: JLP

Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: SI0230
Lab ID : WG157171-4
Analytical Date: 01/19/15 18:32
Lab File ID : 7IA292.D
Instrument ID: GC07
Initial Calibration Date(s): 12/29/14 10:27 12/30/14 10:10
Column ID: B

	Compound	$\overline{RRF}$/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
5	Aroclor-1016(4)	1037586	1232260	1232260	0.001	18.76224	20.00000	Averaged	
5	Aroclor-1016(1)	1136455	1348860	1348860	0.001	18.69017	20.00000	Averaged	
5	Aroclor-1016(3)	2070395	2370456	2370456	0.001	14.49292	20.00000	Averaged	
5	Aroclor-1016(5)	874047	1073496	1073496	0.001	22.81899	20.00000	Averaged	*
5	Aroclor-1016(2)	998796	1171860	1171860	0.001	17.32726	20.00000	Averaged	
9	Aroclor-1260(4)	1313912	1475528	1475528	0.001	12.30036	20.00000	Averaged	
9	Aroclor-1260(1)	1596010	1839904	1839904	0.001	15.28151	20.00000	Averaged	
9	Aroclor-1260(5)	1833078	2120280	2120280	0.001	15.66776	20.00000	Averaged	
9	Aroclor-1260(3)	1938748	2149296	2149296	0.001	10.86000	20.00000	Averaged	
9	Aroclor-1260(2)	2002277	2260504	2260504	0.001	12.89665	20.00000	Averaged	
2	Tetrachloro-m-xylene	60275788	69047400	69047400	0.001	14.55246	20.00000	Averaged	
12	Decachlorobiphenyl	24490588	26575600	26575600	0.001	8.51352	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: 7IA292.D
Report Date: 23-Jan-2015 08:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA292.D
Lab Smp Id: WG157171-4
Inj Date : 19-JAN-2015 18:32
Operator : JLP   Inst ID: gc07.i
Smp Info : WG157171-4,SI0230
Misc Info : WG157171,WG157171,WG156298,SI0230-1
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m\PCB078.m
Meth Date : 20-Jan-2015 10:04 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 14   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

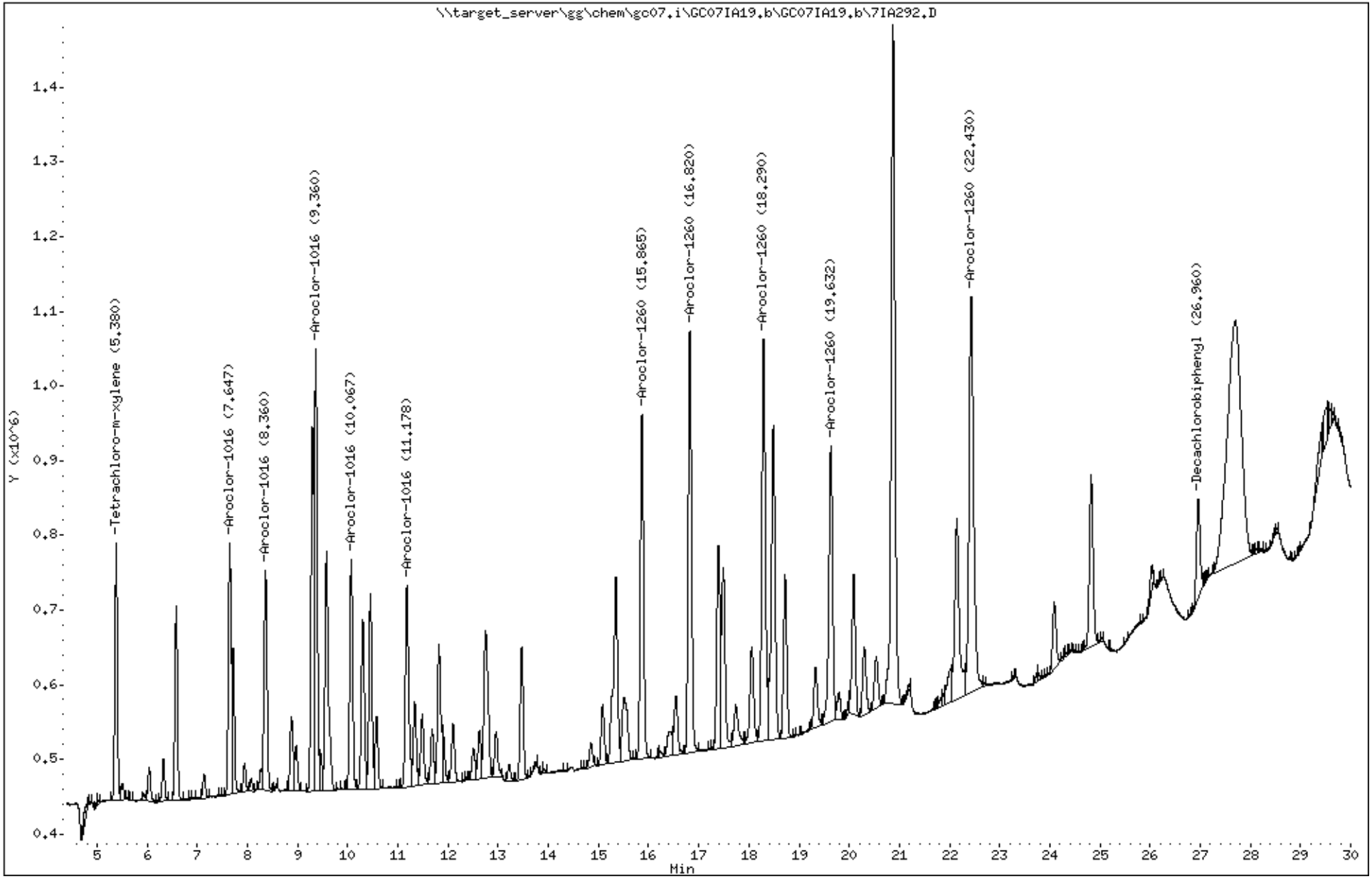
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.380	5.388	-0.008	345237	0.02000	0.00573			
5 Aroclor-1016						CAS #: 12674-11-2		
7.646	7.649	-0.003	337215	1.00000	0.297	80.00- 120.00	100.00	
8.360	8.363	-0.003	292965	1.00000	0.293	158.77- 238.15	86.88	
9.360	9.364	-0.004	592614	1.00000	0.286	296.98- 445.46	175.74	
10.066	10.068	-0.002	308065	1.00000	0.297	114.78- 172.17	91.36	
11.178	11.181	-0.003	268374	1.00000	0.307	112.32- 168.48	79.59	
	Average of Peak Amounts =				0.29600			
9 Aroclor-1260						CAS #: 11096-82-5		
15.865	15.869	-0.004	459976	1.00000	0.288	80.00- 120.00	100.00	
16.820	16.828	-0.008	565126	1.00000	0.282	94.69- 142.03	122.86	
18.290	18.296	-0.006	537324	1.00000	0.277	89.28- 133.92	116.82	
19.631	19.638	-0.007	368882	1.00000	0.281	72.48- 108.72	80.20	
22.430	22.433	-0.003	530070	1.00000	0.289	0.00- 0.00	115.24	
	Average of Peak Amounts =				0.28340			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.960	26.968	-0.008	132878	0.02000	0.00542			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA292.D
Date : 19-JAN-2015 18:32
Client ID:
Sample Info: WG157171-4,SI0230

Instrument: gc07.i

Operator: JLP
Column diameter: 0.53

Column phase: ZB-MultiResidue-2



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: SI0230
Lab ID : WG157171-3
Analytical Date: 01/19/15 18:32
Lab File ID : 7IA292.D
Instrument ID: GC07
Initial Calibration Date(s): 12/29/14 10:27 12/30/14 10:10
Column ID: A

	Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
6	Aroclor-1016(4)	239009	262520	262520	0.001	9.83701	20.00000	Averaged
6	Aroclor-1016(5)	251767	283228	283228	0.001	12.49620	20.00000	Averaged
6	Aroclor-1016(2)	263021	296952	296952	0.001	12.90066	20.00000	Averaged
6	Aroclor-1016(1)	320717	366124	366124	0.001	14.15806	20.00000	Averaged
6	Aroclor-1016(3)	590889	624300	624300	0.001	5.65438	20.00000	Averaged
9	Aroclor-1260(4)	415294	434020	434020	0.001	4.50906	20.00000	Averaged
9	Aroclor-1260(1)	502553	544216	544216	0.001	8.29030	20.00000	Averaged
9	Aroclor-1260(5)	611057	612680	612680	0.001	0.26555	20.00000	Averaged
9	Aroclor-1260(3)	661283	607700	607700	0.001	-8.10285	20.00000	Averaged
9	Aroclor-1260(2)	777892	787844	787844	0.001	1.27932	20.00000	Averaged
3	Tetrachloro-m-xylene	14574327	16197800	16197800	0.001	11.13927	20.00000	Averaged
12	Decachlorobiphenyl	10210134	8998800	8998800	0.001	-11.86404	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA292.D
Report Date: 23-Jan-2015 08:08

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA292.D
Lab Smp Id: WG157171-3
Inj Date : 19-JAN-2015 18:32
Operator : JLP   Inst ID: gc07.i
Smp Info : WG157171-3,SI0230
Misc Info : WG157171,WG157171,WG156298,SI0230-1
Comment   :
Method   : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m
Meth Date : 20-Jan-2015 10:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10   Cal File: 7HL413.D
Als bottle: 14   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: AR1660.sub
Target Version: 4.12   Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

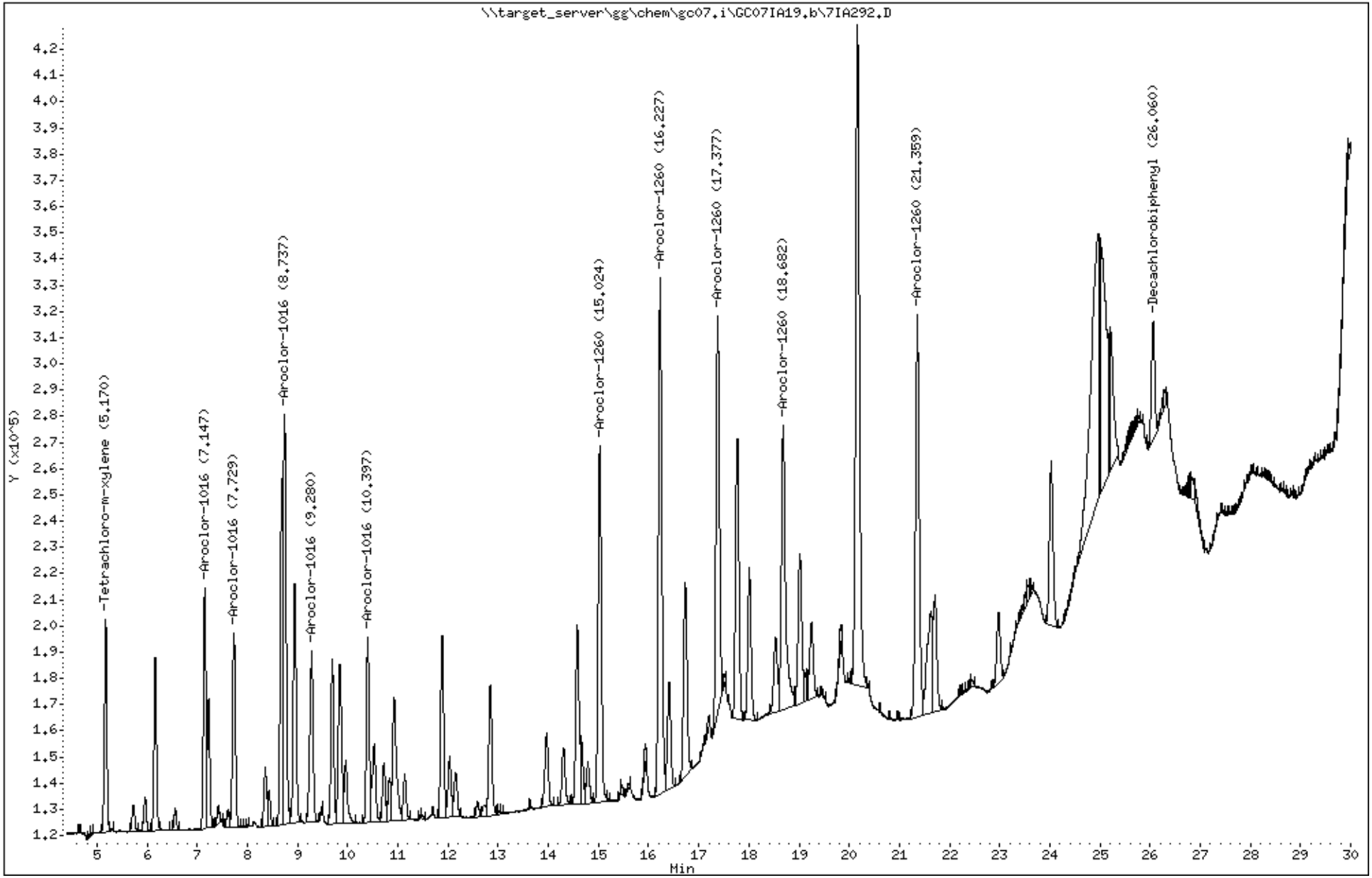
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.170	5.172	-0.002	80989	0.02000	0.00556			
6 Aroclor-1016					CAS #: 12674-11-2			
7.147	7.143	0.004	91531	1.00000	0.285	80.00- 120.00	100.00	
7.728	7.725	0.003	74238	1.00000	0.282	158.77- 238.15	81.11	
8.737	8.735	0.002	156075	1.00000	0.264	296.98- 445.46	170.52	
9.280	9.272	0.008	65630	1.00000	0.274	114.78- 172.16	71.70	
10.397	10.392	0.005	70807	1.00000	0.281	112.32- 168.48	77.36	
		Average of Peak Amounts =			0.27720			
9 Aroclor-1260					CAS #: 11096-82-5			
15.023	15.013	0.010	136054	1.00000	0.271	80.00- 120.00	100.00	
16.227	16.218	0.009	196961	1.00000	0.253	94.69- 142.03	144.77	
17.377	17.367	0.010	151925	1.00000	0.230	89.28- 133.92	111.67	
18.682	18.673	0.009	108505	1.00000	0.261	72.48- 108.72	79.75	
21.358	21.347	0.011	153170	1.00000	0.251	0.00- 0.00	112.58	
		Average of Peak Amounts =			0.25320			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.060	26.058	0.002	44994	0.02000	0.00441			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA292.D
Date : 19-JAN-2015 18:32
Client ID:
Sample Info: WG157171-3,SI0230

Instrument: gc07.i

Operator: JLP
Column diameter: 0.53

Column phase: ZB-MultiResidue-1



Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG156929-1
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: 7IA236.D

Sample Date:
Received Date:
Extract Date: 14-JAN-15
Extracted By: JMS
Extraction Method: SW846 3510
Lab Prep Batch: WG156929

Analysis Date: 15-JAN-15
Analyst: JLP
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 23-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.25	ug/L	1	.5	0.50	0.15	0.25
Aroclor-1221	U	0.25	ug/L	1	.5	0.50	0.20	0.25
Aroclor-1232	U	0.25	ug/L	1	.5	0.50	0.089	0.25
Aroclor-1242	U	0.25	ug/L	1	.5	0.50	0.18	0.25
Aroclor-1248	U	0.25	ug/L	1	.5	0.50	0.20	0.25
Aroclor-1254	U	0.25	ug/L	1	.5	0.50	0.082	0.25
Aroclor-1260	U	0.25	ug/L	1	.5	0.50	0.17	0.25
Tetrachloro-M-Xylene		79.7	%					
Decachlorobiphenyl		78.6	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA236.D
Report Date: 16-Jan-2015 14:24

Katahdin Analytical Services

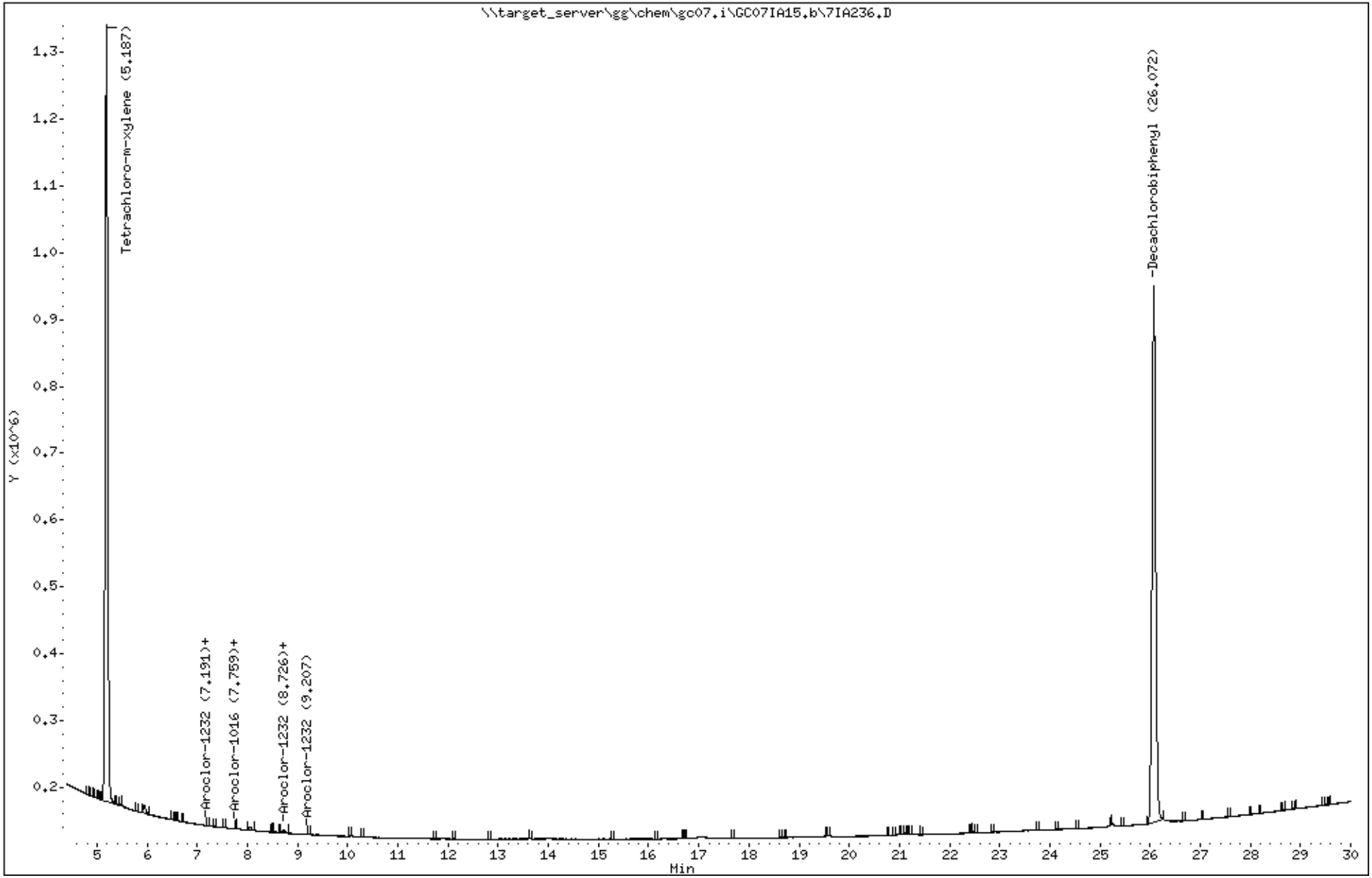
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA236.D
Lab Smp Id: WG156929-1 Client Smp ID: WG156929-Blank
Inj Date : 15-JAN-2015 12:28
Operator : JLP Inst ID: gc07.i
Smp Info : WG156929-1,SI0230
Misc Info : WG156982,WG156929,WG156298-1,SI0230-2
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m
Meth Date : 16-Jan-2015 13:43 kasgc Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD+6268.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.187	5.161	0.026	1161821	0.07972	0.797			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.072	26.051	0.021	802658	0.07861	0.786			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA236.D
Date : 15-JAN-2015 12:28
Client ID: WG156929-Blank
Instrument: gc07.i
Sample Info: WG156929-1,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA236.D
Report Date: 16-Jan-2015 14:25

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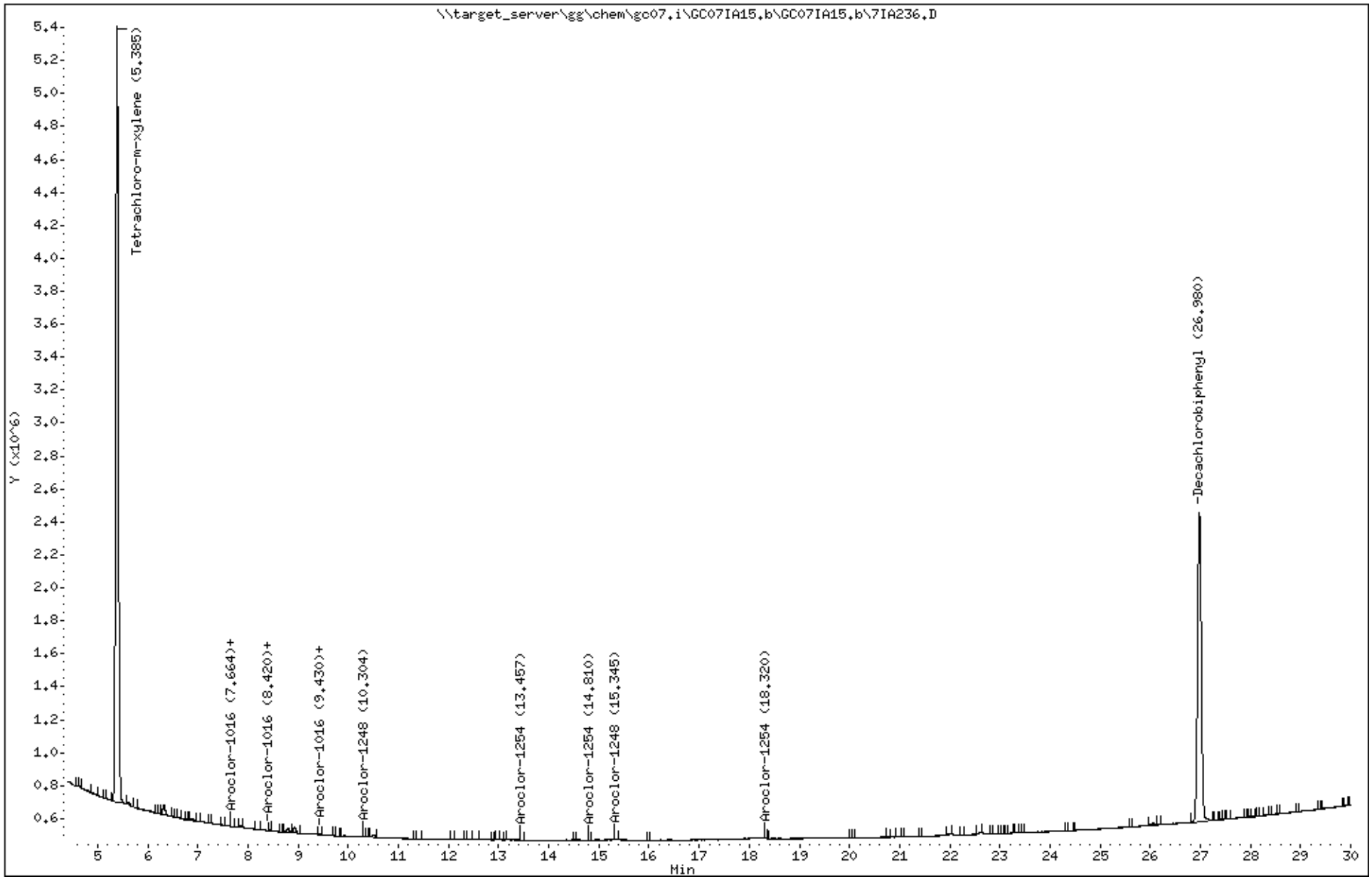
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA236.D
Lab Smp Id: WG156929-1 Client Smp ID: WG156929-Blank
Inj Date : 15-JAN-2015 12:28
Operator : JLP Inst ID: gc07.i
Smp Info : WG156929-1,SI0230
Misc Info : WG156982,WG156929,WG156298-1,SI0230-2
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m\PCB078.m
Meth Date : 16-Jan-2015 13:52 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD+6268.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
RT	EXP RT	DLT RT	RESPONSE					
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.385	5.371	0.014	4708309	0.07811	0.781			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.980	26.957	0.023	1872920	0.07648	0.765			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA236.D
Date : 15-JAN-2015 12:28
Client ID: WG156929-Blank
Instrument: gc07.i
Sample Info: WG156929-1,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG157001-1
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: 7IA282.D

Sample Date:
Received Date:
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3540
Lab Prep Batch: WG157001

Analysis Date: 19-JAN-15
Analyst: JLP
Analysis Method: SW846 8082A
Matrix: SL
% Solids: NA
Report Date: 23-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	8.5	ug/Kgdrywt	1	17	17.	6.0	8.5
Aroclor-1221	U	8.5	ug/Kgdrywt	1	17	17.	7.9	8.5
Aroclor-1232	U	10.	ug/Kgdrywt	1	17	17.	9.3	10.
Aroclor-1242	U	8.5	ug/Kgdrywt	1	17	17.	5.8	8.5
Aroclor-1248	U	8.5	ug/Kgdrywt	1	17	17.	6.1	8.5
Aroclor-1254	U	8.5	ug/Kgdrywt	1	17	17.	4.7	8.5
Aroclor-1260	U	8.5	ug/Kgdrywt	1	17	17.	6.0	8.5
Tetrachloro-M-Xylene		69.7	%					
Decachlorobiphenyl		82.9	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA282.D
Report Date: 20-Jan-2015 10:13

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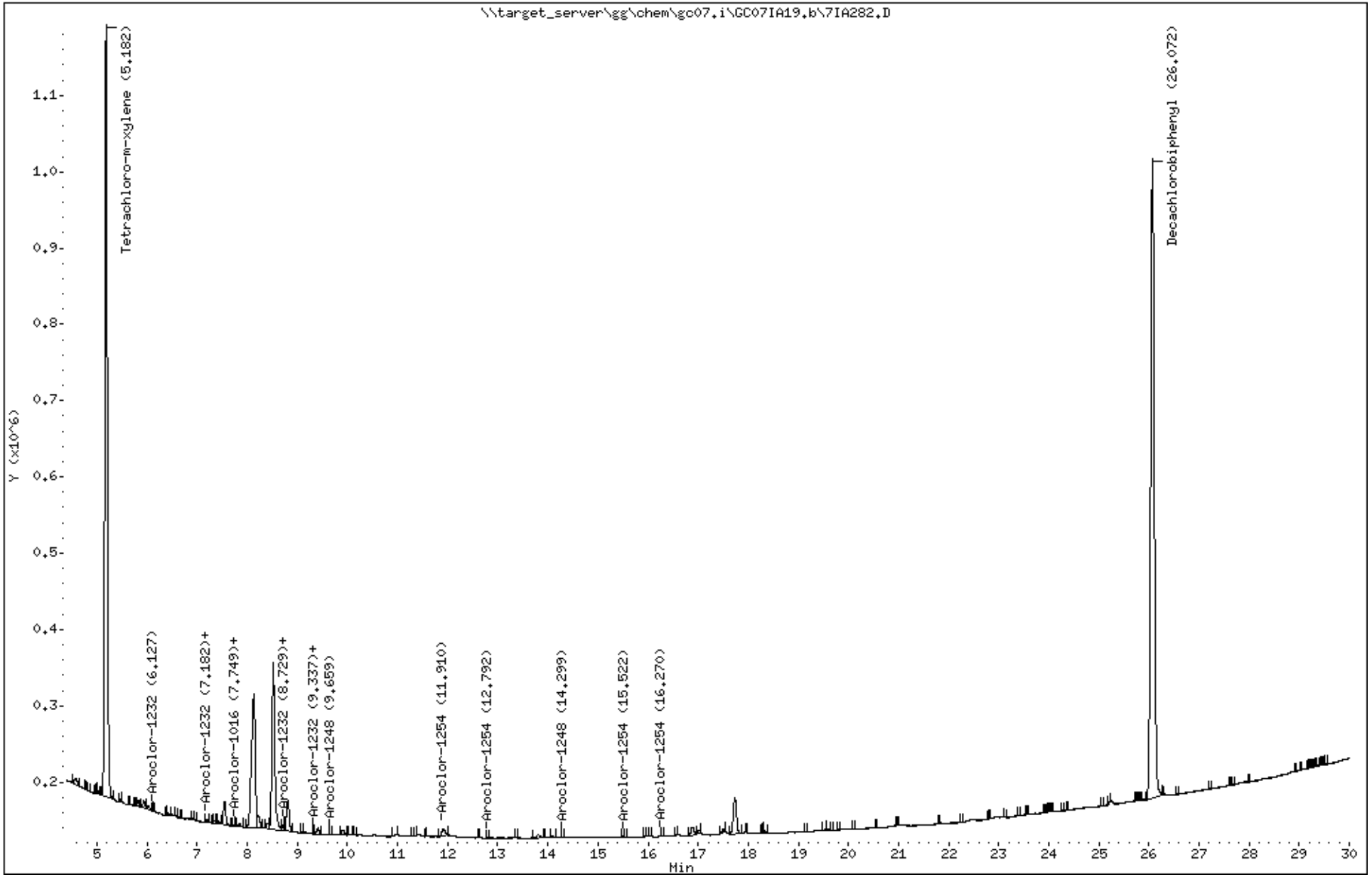
Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA282.D
Lab Smp Id: WG157001-1 Client Smp ID: WG157001-Blank
Inj Date : 19-JAN-2015 12:45
Operator : JLP Inst ID: gc07.i
Smp Info : WG157001-1,SI0230
Misc Info : WG157171,WG157001,WG156298-1,SI0230-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m
Meth Date : 20-Jan-2015 10:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD+6268.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.181	5.172	0.009	1012457	0.06947	23.2			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.071	26.058	0.013	837802	0.08206	27.4			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA282.D
Date : 19-JAN-2015 12:45
Client ID: WG157001-Blank
Instrument: gc07.i
Sample Info: WG157001-1,SI0230
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA282.D
Report Date: 20-Jan-2015 10:14

Katahdin Analytical Services

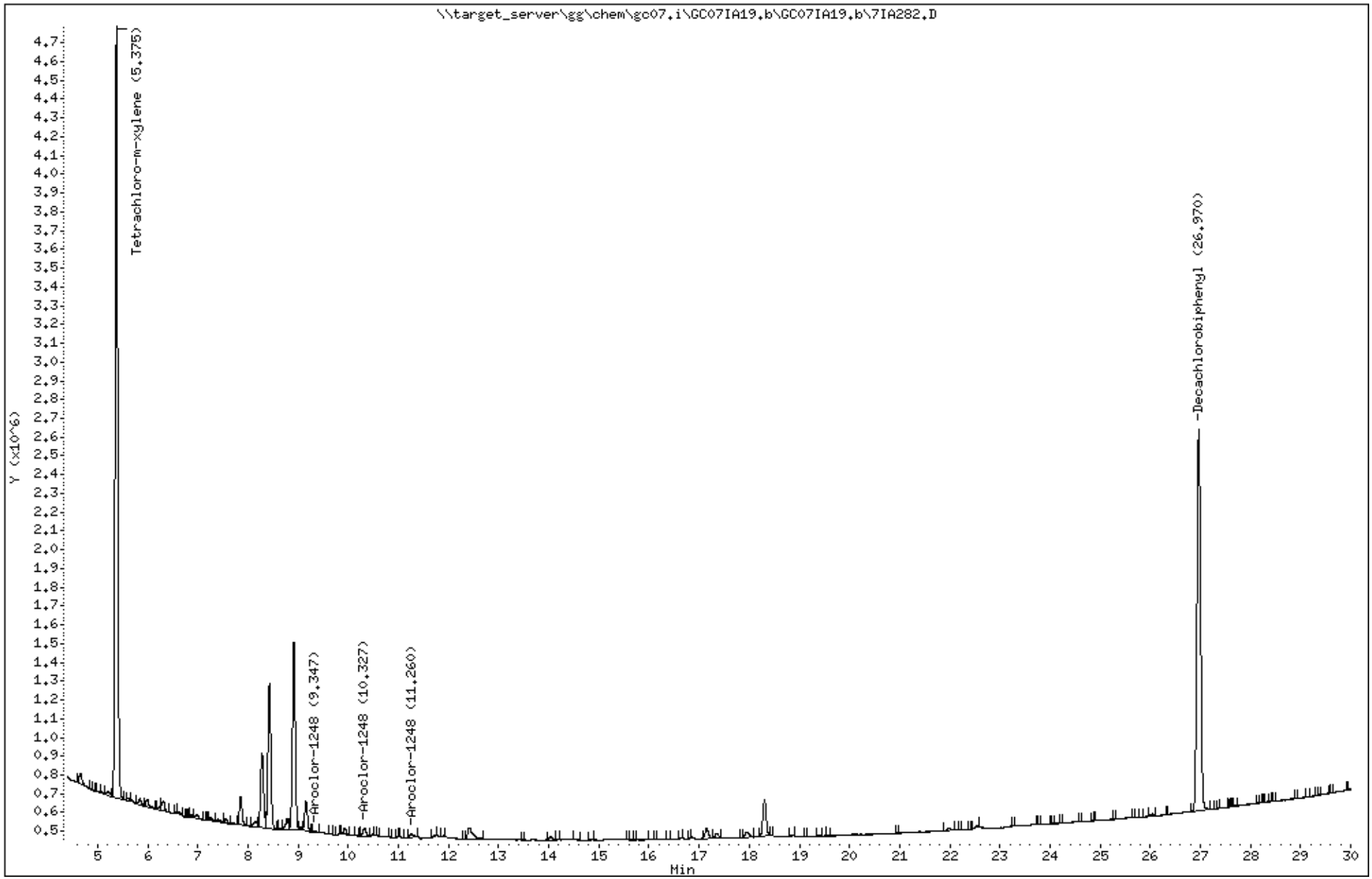
Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA282.D
Lab Smp Id: WG157001-1 Client Smp ID: WG157001-Blank
Inj Date : 19-JAN-2015 12:45
Operator : JLP Inst ID: gc07.i
Smp Info : WG157001-1,SI0230
Misc Info : WG157171,WG157001,WG156298-2,SI0230-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m\PCB078.m
Meth Date : 20-Jan-2015 10:04 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8082DoD+6268.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.374	5.388	-0.014	4109100	0.06817	22.7			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
26.969	26.968	0.001	2031918	0.08297	27.6			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA282.D
Date : 19-JAN-2015 12:45
Client ID: WG157001-Blank
Instrument: gc07.i
Sample Info: WG157001-1,SI0230
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Katahdin Analytical Services 0000477

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG156929-2
LCSD ID: WG156929-3
Project:
SDG: SI0230
Report Date: 23-JAN-15
LCS File ID: 7IA237.D

Received Date:
Extract Date: 14-JAN-15
Extracted By: JMS
Extraction Method: SW846 3510
Lab Prep Batch: WG156929
LCSD File ID: 7IA238.D

Analysis Date: 15-JAN-15
Analyst: JLP
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Aroclor-1016	5.00	4.79	95.8	5.25	105.	ug/L	9	30	25-145
Aroclor-1260	5.00	4.45	89.0	4.54	90.8	ug/L	2	30	30-145
Tetrachloro-M-Xylene			86.2		77.9				62-111
Decachlorobiphenyl			70.5		60.5				40-135

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Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA237.D
Report Date: 16-Jan-2015 14:24

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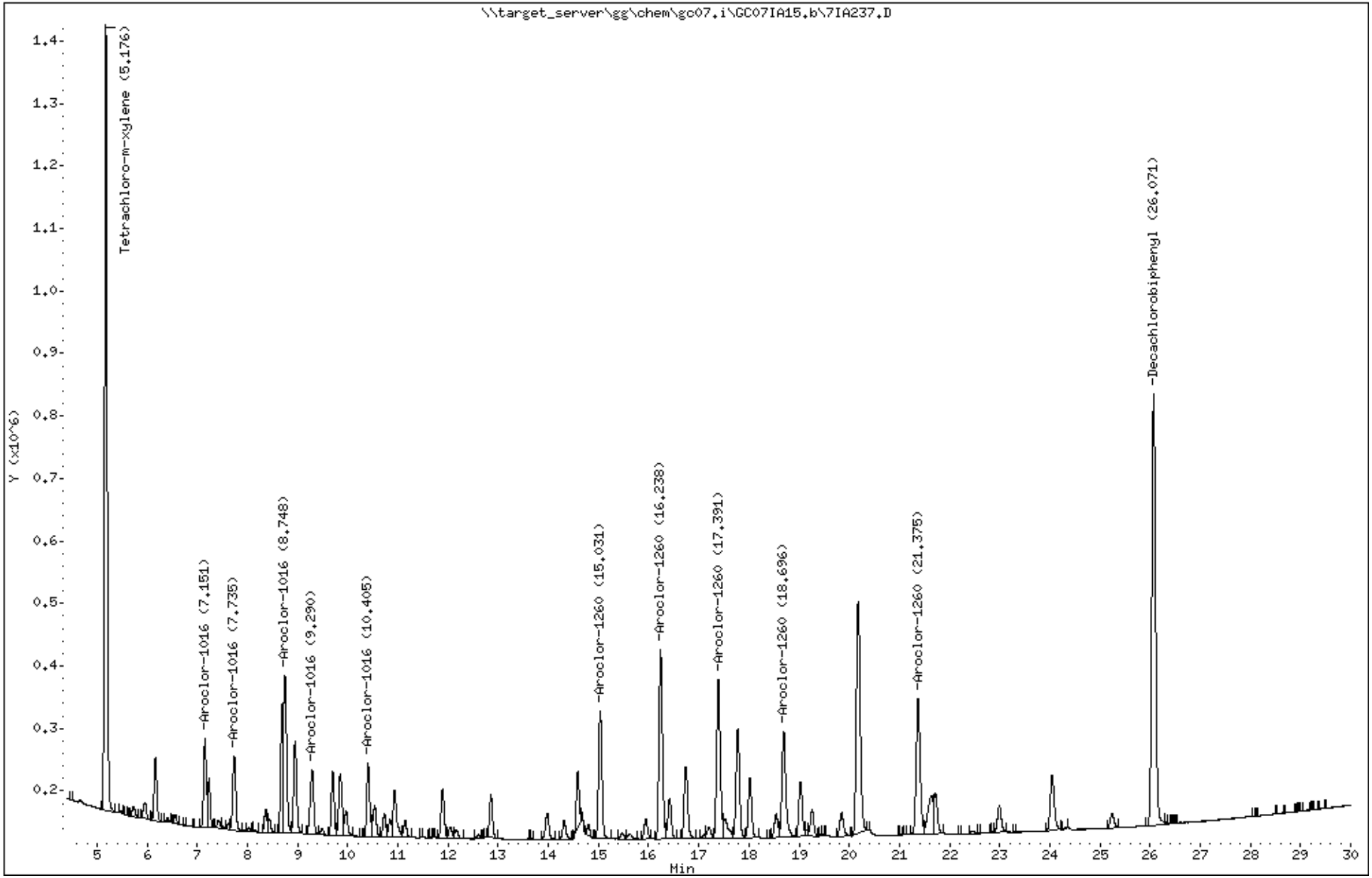
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA237.D
Lab Smp Id: WG156929-2 Client Smp ID: WG156929-LCS
Inj Date : 15-JAN-2015 13:03
Operator : JLP Inst ID: gc07.i
Smp Info : WG156929-2,SI0230
Misc Info : WG156982,WG156929,WG156298-1,SI0230-2
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m
Meth Date : 16-Jan-2015 13:43 kasgc Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LCSDoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.176	5.161	0.015	1256674	0.08623	0.862			
6 Aroclor-1016					CAS #: 12674-11-2			
7.151	7.134	0.017	143360	0.44700	4.47	80.00- 120.00	100.00	
7.734	7.719	0.015	118512	0.45058	4.50	158.77- 238.15	82.67	
8.747	8.731	0.016	251536	0.42569	4.26	296.98- 445.46	175.46	
9.289	9.271	0.018	102682	0.42962	4.30	114.78- 172.16	71.63	
10.404	10.389	0.015	117731	0.46762	4.68	112.32- 168.48	82.12	
		Average of Peak Concentrations =			4.44			
9 Aroclor-1260					CAS #: 11096-82-5			
15.031	15.014	0.017	204833	0.40758	4.08	80.00- 120.00	100.00	
16.237	16.221	0.016	303328	0.38994	3.90	94.69- 142.03	148.09	
17.391	17.373	0.018	254091	0.38424	3.84	89.28- 133.92	124.05	
18.696	18.671	0.025	168623	0.40603	4.06	72.48- 108.72	82.32	
21.374	21.358	0.016	216764	0.35474	3.55	0.00- 0.00	105.82	
		Average of Peak Concentrations =			3.88			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.071	26.051	0.020	689118	0.06749	0.675			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA237.D
Date : 15-JAN-2015 13:03
Client ID: WG156929-LCS
Instrument: gc07.i
Sample Info: WG156929-2,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA237.D
Report Date: 16-Jan-2015 14:25

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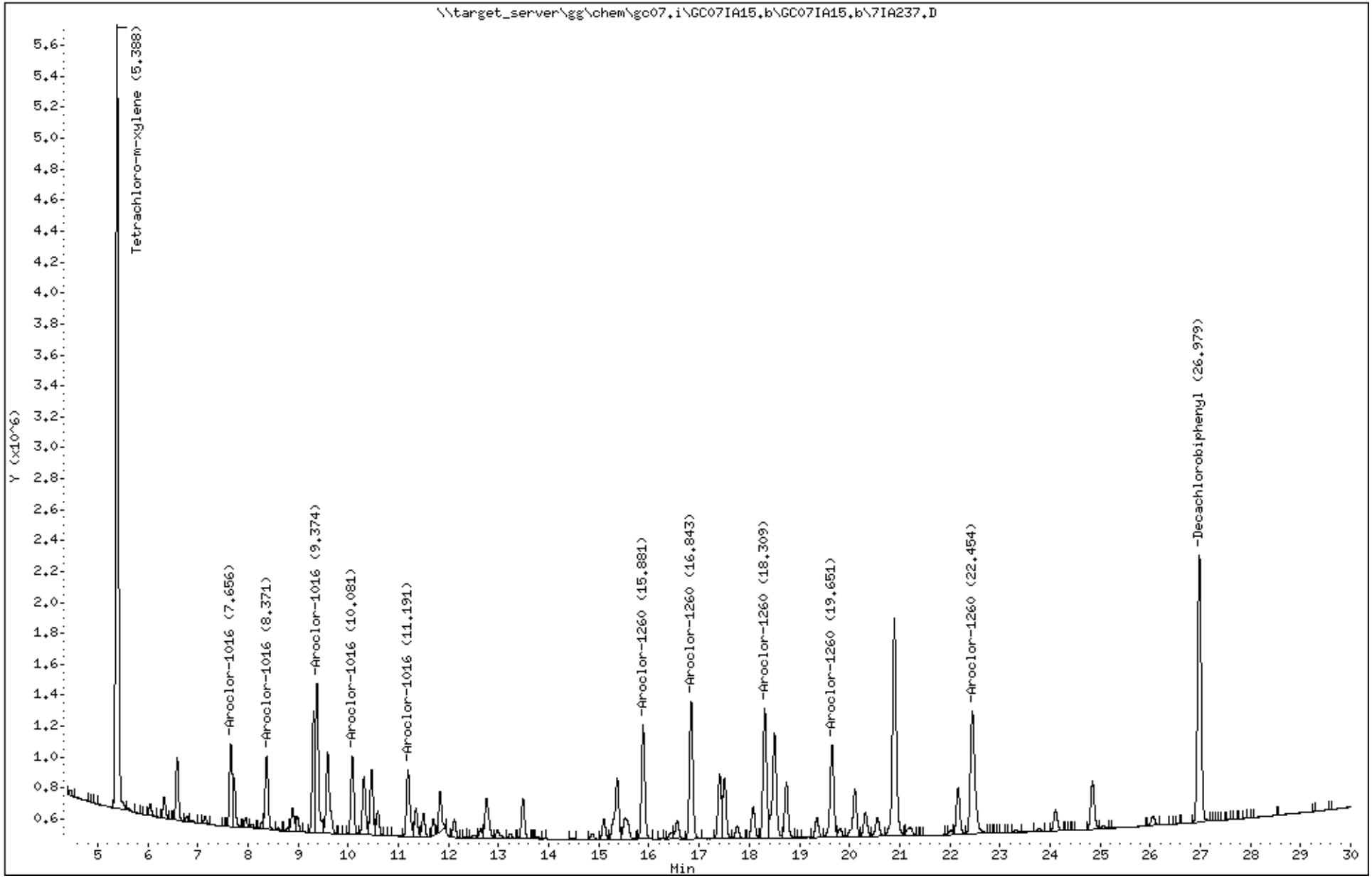
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA237.D
Lab Smp Id: WG156929-2 Client Smp ID: WG156929-LCS
Inj Date : 15-JAN-2015 13:03
Operator : JLP Inst ID: gc07.i
Smp Info : WG156929-2,SI0230
Misc Info : WG156982,WG156929,WG156298-1,SI0230-2
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m\PCB078.m
Meth Date : 16-Jan-2015 13:52 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LCSDoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.387	5.371	0.016	5064750	0.08403	0.840			
5 Aroclor-1016					CAS #: 12674-11-2			
7.655	7.636	0.019	535202	0.47094	4.71	80.00- 120.00	100.00	
8.370	8.352	0.018	476536	0.47711	4.77	158.77- 238.15	89.04	
9.374	9.356	0.018	965708	0.46644	4.66	296.98- 445.46	180.44	
10.080	10.059	0.021	504552	0.48628	4.86	114.78- 172.17	94.27	
11.190	11.172	0.018	432681	0.49503	4.95	112.32- 168.48	80.84	
Average of Peak Concentrations =					4.79			
9 Aroclor-1260					CAS #: 11096-82-5			
15.880	15.859	0.021	735793	0.46102	4.61	80.00- 120.00	100.00	
16.842	16.814	0.028	887928	0.44346	4.43	94.69- 142.03	120.68	
18.309	18.287	0.022	842829	0.43473	4.35	89.28- 133.92	114.55	
19.650	19.627	0.023	593532	0.45173	4.52	72.48- 108.72	80.67	
22.454	22.424	0.030	795336	0.43388	4.34	0.00- 0.00	108.09	
Average of Peak Concentrations =					4.45			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.979	26.957	0.022	1726126	0.07048	0.705			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA237.D
Date : 15-JAN-2015 13:03
Client ID: WG156929-LCS
Instrument: gc07.i
Sample Info: WG156929-2,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA238.D
Report Date: 16-Jan-2015 14:24

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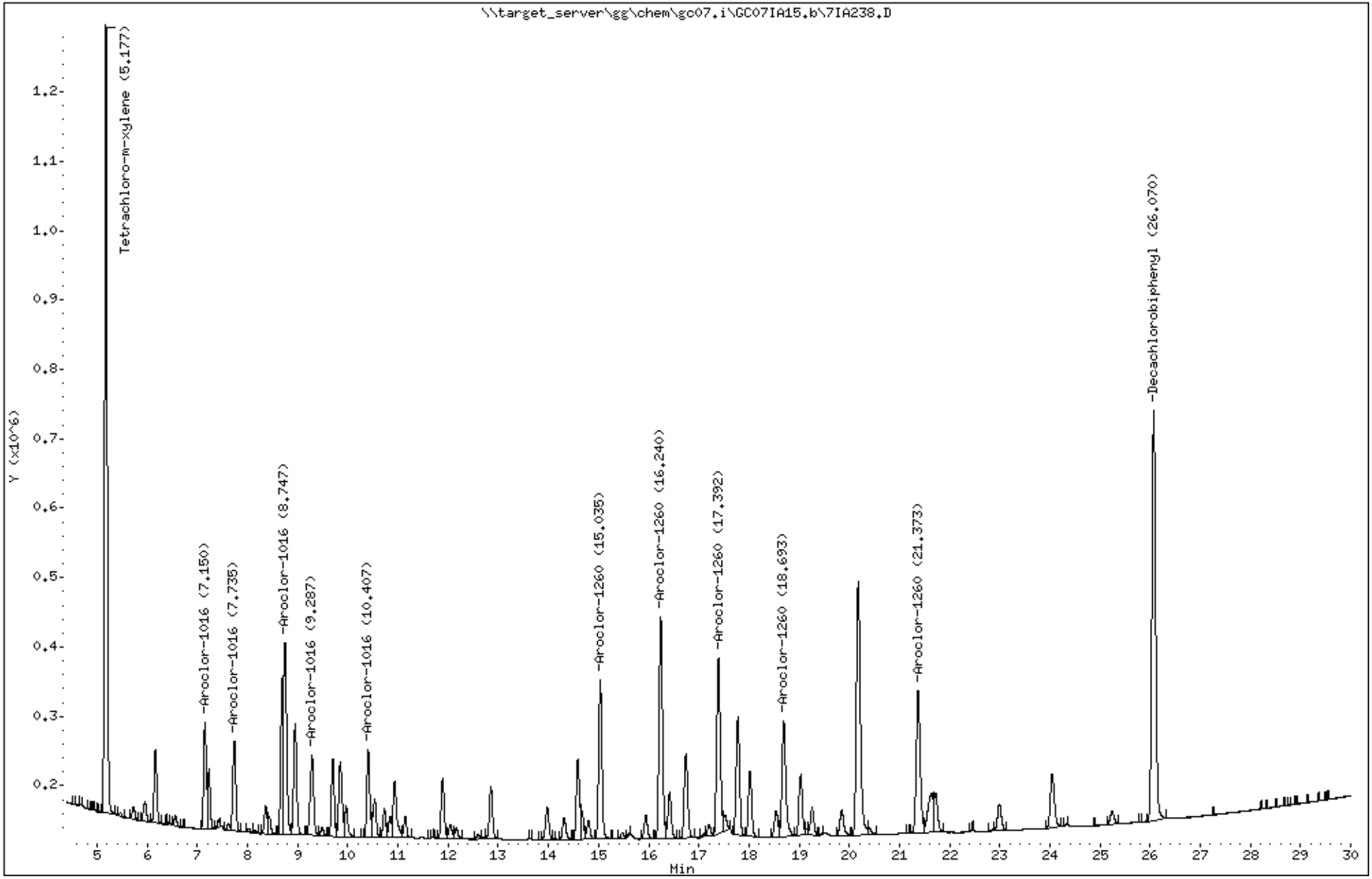
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA238.D
Lab Smp Id: WG156929-3 Client Smp ID: WG156929-LCSD
Inj Date : 15-JAN-2015 13:37
Operator : JLP Inst ID: gc07.i
Smp Info : WG156929-3,SI0230
Misc Info : WG156982,WG156929,WG156298-1,SI0230-2
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m
Meth Date : 16-Jan-2015 13:43 kasgc Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LCSDoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.176	5.161	0.015	1136061	0.07795	0.779			
6 Aroclor-1016					CAS #: 12674-11-2			
7.150	7.134	0.016	154446	0.48157	4.82	80.00- 120.00	100.00	
7.735	7.719	0.016	130019	0.49433	4.94	158.77- 238.15	84.18	
8.746	8.731	0.015	276041	0.46716	4.67	296.98- 445.46	178.73	
9.286	9.271	0.015	114899	0.48073	4.81	114.78- 172.16	74.39	
10.406	10.389	0.017	125986	0.50041	5.00	112.32- 168.48	81.57	
Average of Peak Concentrations =					4.85			
9 Aroclor-1260					CAS #: 11096-82-5			
15.035	15.014	0.021	228825	0.45533	4.55	80.00- 120.00	100.00	
16.240	16.221	0.019	319244	0.41040	4.10	94.69- 142.03	139.51	
17.391	17.373	0.018	251836	0.38083	3.81	89.28- 133.92	110.06	
18.693	18.671	0.022	167255	0.40274	4.03	72.48- 108.72	73.09	
21.373	21.358	0.015	205584	0.33644	3.36	0.00- 0.00	89.84	
Average of Peak Concentrations =					3.97			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.070	26.051	0.019	591137	0.05790	0.579			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\7IA238.D
Date : 15-JAN-2015 13:37
Client ID: WG156929-LCSD
Instrument: gc07.i
Sample Info: WG156929-3,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA238.D
Report Date: 16-Jan-2015 14:25

Katahdin Analytical Services

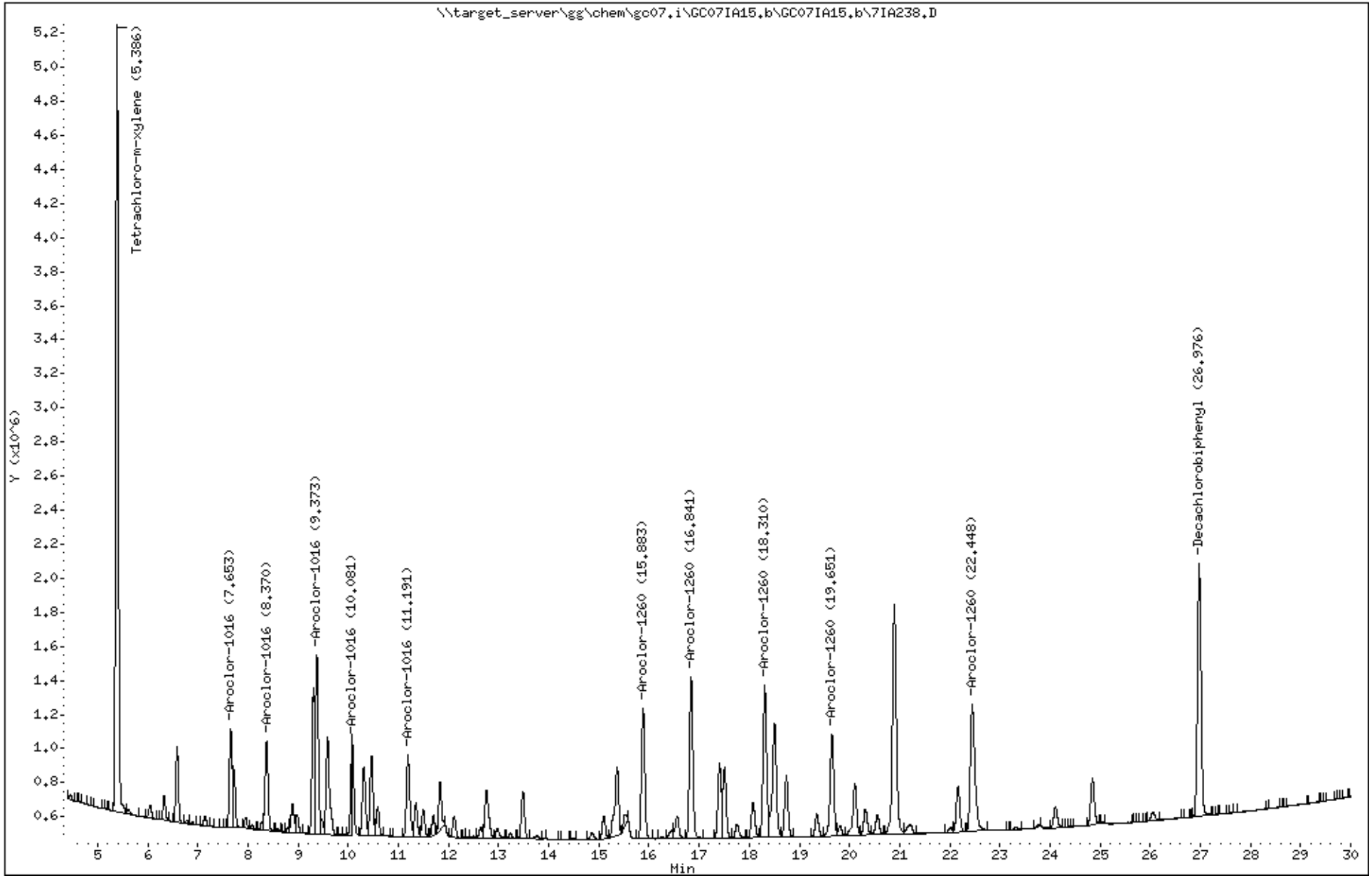
Data file : \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA238.D
Lab Smp Id: WG156929-3 Client Smp ID: WG156929-LCSD
Inj Date : 15-JAN-2015 13:37
Operator : JLP Inst ID: gc07.i
Smp Info : WG156929-3,SI0230
Misc Info : WG156982,WG156929,WG156298-1,SI0230-2
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA15.b\PCB078.m\PCB078.m
Meth Date : 16-Jan-2015 13:52 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LCSDoD.sub
Target Version: 4.12 Sample Matrix: WATER
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt*(1/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.386	5.371	0.015	4620958	0.07666	0.767			
5 Aroclor-1016					CAS #: 12674-11-2			
7.653	7.636	0.017	584956	0.51472	5.15	80.00- 120.00	100.00	
8.369	8.352	0.017	524110	0.52474	5.25	158.77- 238.15	89.60	
9.373	9.356	0.017	1053662	0.50892	5.09	296.98- 445.46	180.13	
10.081	10.059	0.022	544887	0.52515	5.25	114.78- 172.17	93.15	
11.191	11.172	0.019	481987	0.55144	5.51	112.32- 168.48	82.40	
Average of Peak Concentrations =					5.25			
9 Aroclor-1260					CAS #: 11096-82-5			
15.883	15.859	0.024	766119	0.48002	4.80	80.00- 120.00	100.00	
16.841	16.814	0.027	944746	0.47184	4.72	94.69- 142.03	123.32	
18.309	18.287	0.022	894052	0.46115	4.61	89.28- 133.92	116.70	
19.651	19.627	0.024	592861	0.45122	4.51	72.48- 108.72	77.38	
22.448	22.424	0.024	746045	0.40699	4.07	0.00- 0.00	97.38	
Average of Peak Concentrations =					4.54			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.976	26.957	0.019	1482462	0.06053	0.605			

Data File: \\target_server\gg\chem\gc07.i\GC07IA15.b\GC07IA15.b\7IA238.D
Date : 15-JAN-2015 13:37
Client ID: WG156929-LCSD
Instrument: gc07.i
Sample Info: WG156929-3,SI0230
Purge Volume: 1.0
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG157001-2
LCSD ID: WG157001-3
Project:
SDG: SI0230
Report Date: 23-JAN-15
LCS File ID: 7IA283.D

Received Date:
Extract Date: 15-JAN-15
Extracted By: HG
Extraction Method: SW846 3540
Lab Prep Batch: WG157001
LCSD File ID: 7IA284.D

Analysis Date: 19-JAN-15
Analyst: JLP
Analysis Method: SW846 8082A
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Aroclor-1016	167.	159.	95.2	170.	102.	ug/Kgdrywt	7	30	40-140
Aroclor-1260	167.	169.	101.	181.	108.	ug/Kgdrywt	7	30	60-130
Tetrachloro-M-Xylene			60.4		77.8				56-115
Decachlorobiphenyl			83.8		92.2				60-125

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA283.D
Report Date: 20-Jan-2015 10:13

Katahdin Analytical Services

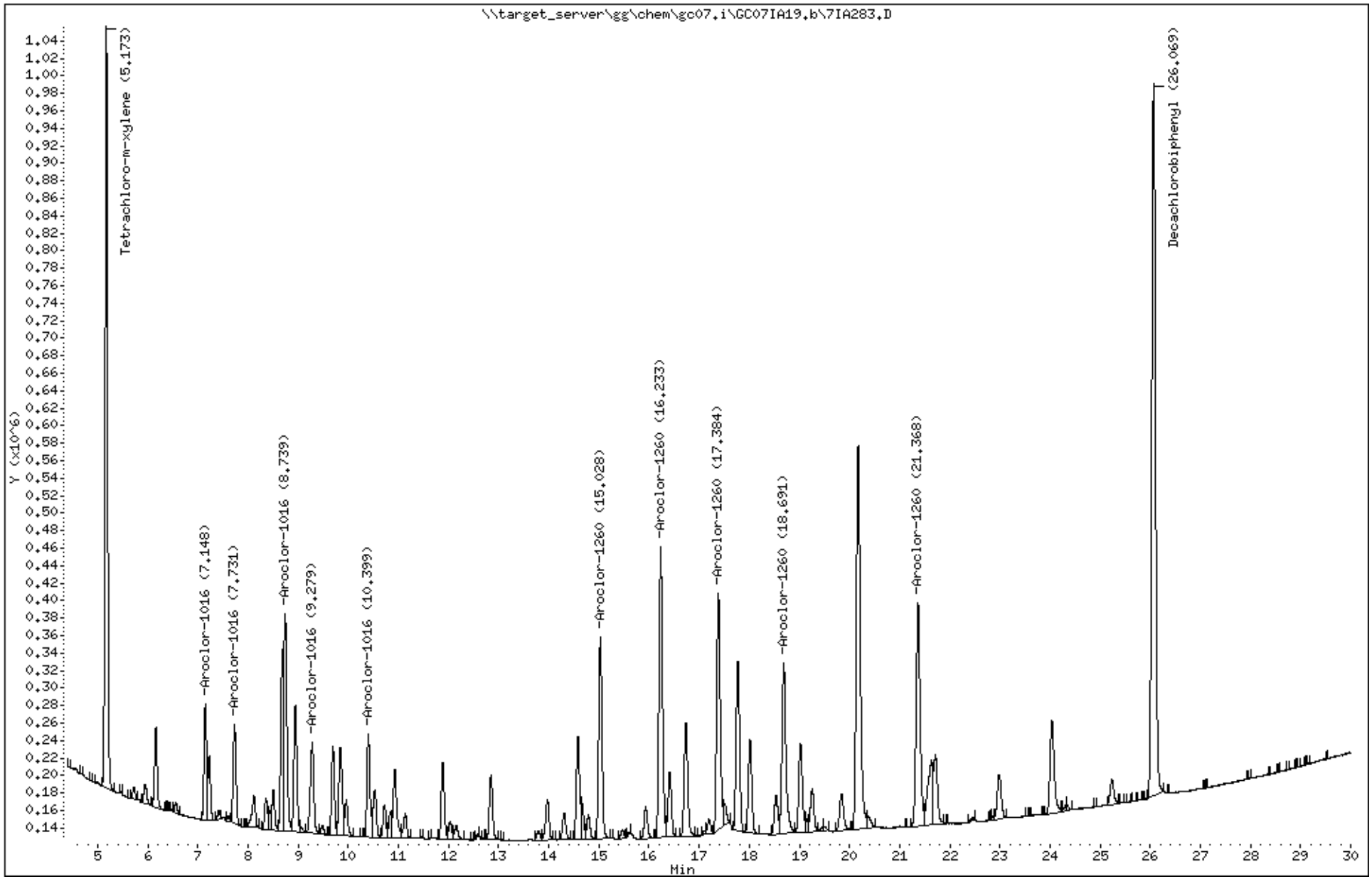
Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA283.D
Lab Smp Id: WG157001-2 Client Smp ID: WG157001-LCS
Inj Date : 19-JAN-2015 13:20
Operator : JLP Inst ID: gc07.i
Smp Info : WG157001-2,SI0230
Misc Info : WG157171,WG157001,WG156298-1,SI0230-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m
Meth Date : 20-Jan-2015 10:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LCSDoD.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.172	5.172	0.000	870871	0.05975	19.9			
6 Aroclor-1016					CAS #: 12674-11-2			
7.147	7.143	0.004	132386	0.41278	138	80.00- 120.00	100.00	
7.730	7.725	0.005	112352	0.42716	142	158.77- 238.15	84.87	
8.739	8.735	0.004	248069	0.41982	140	296.98- 445.46	187.38	
9.279	9.272	0.007	104646	0.43783	146	114.78- 172.16	79.05	
10.399	10.392	0.007	117631	0.46722	156	112.32- 168.48	88.85	
Average of Peak Concentrations =					144			
9 Aroclor-1260					CAS #: 11096-82-5			
15.027	15.013	0.014	230897	0.45945	153	80.00- 120.00	100.00	
16.232	16.218	0.014	331509	0.42616	142	94.69- 142.03	143.57	
17.384	17.367	0.017	269710	0.40786	136	89.28- 133.92	116.81	
18.690	18.673	0.017	195605	0.47100	157	72.48- 108.72	84.72	
21.367	21.347	0.020	255758	0.41855	140	0.00- 0.00	110.77	
Average of Peak Concentrations =					146			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.069	26.058	0.011	813761	0.07970	26.6			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA283.D
Date : 19-JAN-2015 13:20
Client ID: WG157001-LCS
Instrument: gc07.i
Sample Info: WG157001-2,SI0230
Operator: JLP
Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA283.D
Report Date: 20-Jan-2015 10:14

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA283.D
Lab Smp Id: WG157001-2 Client Smp ID: WG157001-LCS
Inj Date : 19-JAN-2015 13:20
Operator : JLP Inst ID: gc07.i
Smp Info : WG157001-2,SI0230
Misc Info : WG157171,WG157001,WG156298-2,SI0230-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m\PCB078.m
Meth Date : 20-Jan-2015 10:04 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LCSDoD.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

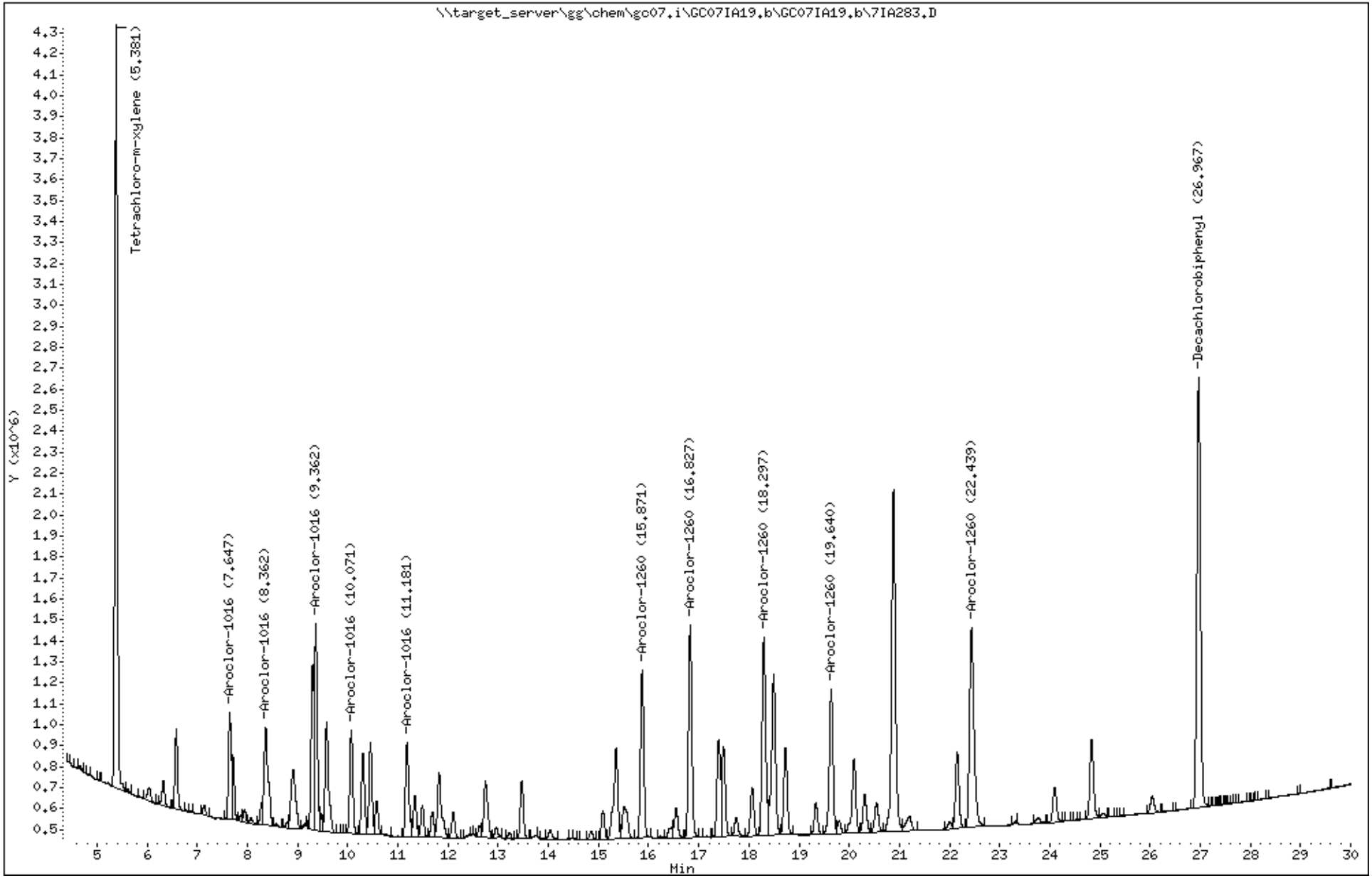
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.380	5.388	-0.008	3638604	0.06037	20.1			
5 Aroclor-1016					CAS #: 12674-11-2			
7.647	7.649	-0.002	509538	0.44836	149	80.00- 120.00	100.00	
8.362	8.363	-0.001	464950	0.46551	155	158.77- 238.15	91.25	
9.362	9.364	-0.002	984201	0.47537	158	296.98- 445.46	193.16	
10.070	10.068	0.002	495166	0.47723	159	114.78- 172.17	97.18	
11.180	11.181	-0.001	451817	0.51693	172	112.32- 168.48	88.67	
	Average of Peak Concentrations =				159			
9 Aroclor-1260					CAS #: 11096-82-5			
15.870	15.869	0.001	803027	0.50315	168	80.00- 120.00	100.00	
16.827	16.828	-0.001	1015859	0.50735	169	94.69- 142.03	126.50	
18.297	18.296	0.001	941380	0.48556	162	89.28- 133.92	117.23	
19.640	19.638	0.002	690431	0.52548	175	72.48- 108.72	85.98	
22.438	22.433	0.005	950502	0.51853	173	0.00- 0.00	118.36	
	Average of Peak Concentrations =				169			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.967	26.968	-0.001	2052478	0.08381	27.9			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA283.D
Date : 19-JAN-2015 13:20
Client ID: WG157001-LCS
Sample Info: WG157001-2,SI0230

Instrument: gc07.i

Operator: JLP

Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA284.D
Report Date: 20-Jan-2015 10:13

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA284.D
Lab Smp Id: WG157001-3 Client Smp ID: WG157001-LCSD
Inj Date : 19-JAN-2015 13:55
Operator : JLP Inst ID: gc07.i
Smp Info : WG157001-3,SI0230
Misc Info : WG157171,WG157001,WG156298-1,SI0230-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m
Meth Date : 20-Jan-2015 10:03 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LCSDoD.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

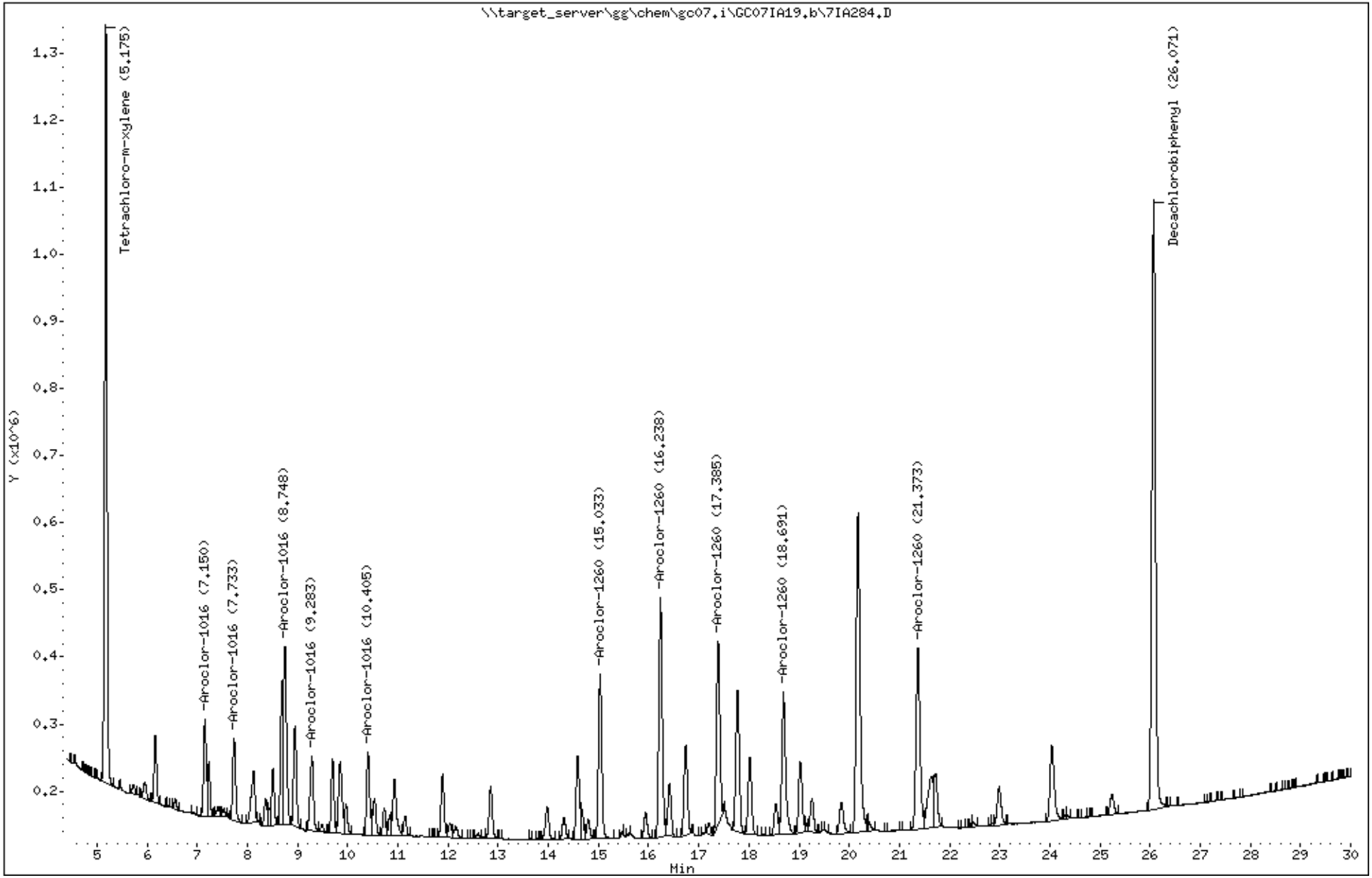
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.174	5.172	0.002	1130695	0.07758	25.9			
6 Aroclor-1016					CAS #: 12674-11-2			
7.149	7.143	0.006	144993	0.45209	151	80.00- 120.00	100.00	
7.733	7.725	0.008	121368	0.46144	154	158.77- 238.15	83.71	
8.748	8.735	0.013	266077	0.45030	150	296.98- 445.46	183.51	
9.283	9.272	0.011	111328	0.46579	155	114.78- 172.16	76.78	
10.404	10.392	0.012	123444	0.49031	163	112.32- 168.48	85.14	
Average of Peak Concentrations =					155			
9 Aroclor-1260					CAS #: 11096-82-5			
15.033	15.013	0.020	245033	0.48758	162	80.00- 120.00	100.00	
16.238	16.218	0.020	356028	0.45768	152	94.69- 142.03	145.30	
17.384	17.367	0.017	272258	0.41171	137	89.28- 133.92	111.11	
18.691	18.673	0.018	211572	0.50945	170	72.48- 108.72	86.34	
21.373	21.347	0.026	269512	0.44106	147	0.00- 0.00	109.99	
Average of Peak Concentrations =					154			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.071	26.058	0.013	908170	0.08895	29.6			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\7IA284.D
Date : 19-JAN-2015 13:55
Client ID: WG157001-LCSD
Sample Info: WG157001-3,SI0230

Instrument: gc07.i

Operator: JLP

Column phase: ZB-MultiResidue-1
Column diameter: 0.53



Data File: 7IA284.D
Report Date: 20-Jan-2015 10:14

Katahdin Analytical Services

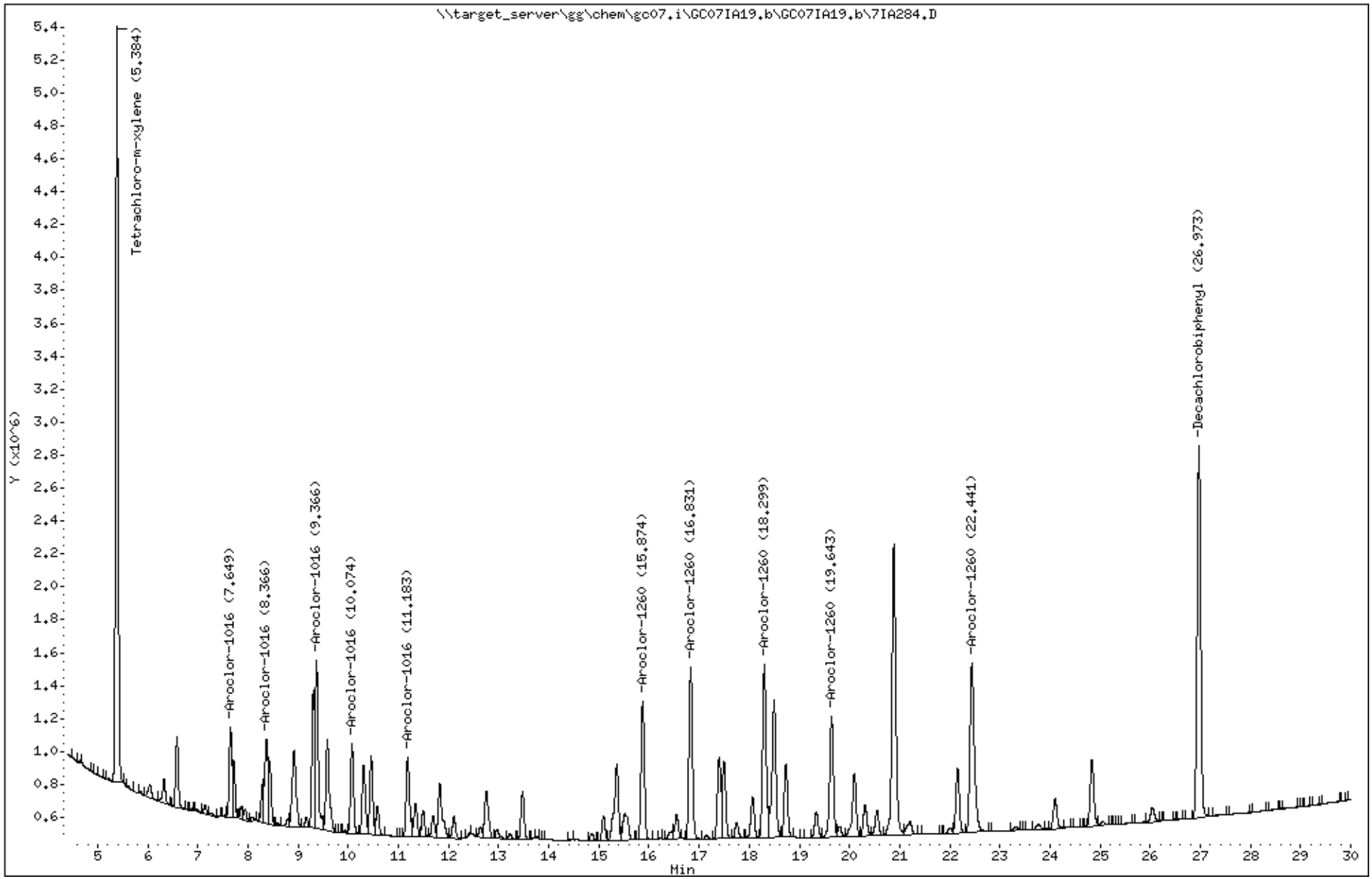
Data file : \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA284.D
Lab Smp Id: WG157001-3 Client Smp ID: WG157001-LCSD
Inj Date : 19-JAN-2015 13:55
Operator : JLP Inst ID: gc07.i
Smp Info : WG157001-3,SI0230
Misc Info : WG157171,WG157001,WG156298-2,SI0230-1
Comment :
Method : \\target_server\gg\chem\gc07.i\GC07IA19.b\PCB078.m\PCB078.m
Meth Date : 20-Jan-2015 10:04 jprescott Quant Type: ESTD
Cal Date : 30-DEC-2014 10:10 Cal File: 7HL413.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: LCSDoD.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: V200T2

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Final Volume (L)
M	0.00000	% Moisture
Ws	0.03000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.384	5.388	-0.004	4588455	0.07612	25.4			
5 Aroclor-1016					CAS #: 12674-11-2			
7.649	7.649	0.000	551065	0.48490	162	80.00- 120.00	100.00	
8.366	8.363	0.003	507207	0.50782	169	158.77- 238.15	92.04	
9.366	9.364	0.002	1022305	0.49377	164	296.98- 445.46	185.51	
10.074	10.068	0.006	541845	0.52222	174	114.78- 172.17	98.33	
11.182	11.181	0.001	478663	0.54764	182	112.32- 168.48	86.86	
Average of Peak Concentrations =					170			
9 Aroclor-1260					CAS #: 11096-82-5			
15.874	15.869	0.005	841134	0.52702	176	80.00- 120.00	100.00	
16.831	16.828	0.003	1046422	0.52262	174	94.69- 142.03	124.41	
18.299	18.296	0.003	1054008	0.54365	181	89.28- 133.92	125.31	
19.642	19.638	0.004	733472	0.55824	186	72.48- 108.72	87.20	
22.441	22.433	0.008	1032185	0.56309	188	0.00- 0.00	122.71	
Average of Peak Concentrations =					181			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
26.972	26.968	0.004	2256279	0.09213	30.7			

Data File: \\target_server\gg\chem\gc07.i\GC07IA19.b\GC07IA19.b\7IA284.D
Date : 19-JAN-2015 13:55
Client ID: WG157001-LCSD
Instrument: gc07.i
Sample Info: WG157001-3,SI0230
Operator: JLP
Column phase: ZB-MultiResidue-2
Column diameter: 0.53



Logbooks and Supporting Documents

AP PCB

Sox

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - SOIL PESTICIDE/PCB

Extraction Method: (check one)	SW846 3550	SW846 3540 ✓	SW846 3545	SW846 3546	SW846 3580
Analytical Method: (check one)	SW846 8081	SW846 8082 ✓	EPA 608		
Standards	Surrogate ID: GC1483	Spike ID: GC1480 PCB	Spike ID:		
Solvents	Solvent Lot # (Mecl2): DL877	Solvent Lot # (Acetone): —	Solvent Lot # (Hexane): DL 750		
Consumables	Filter Paper Lot # (SON) —	Filter Paper Lot # (KD)	Acid Lot # 65072		
	Sodium Sulfate (granular) Lot #: 2786404	Sodium Sulfate (powder) Lot #: 2757003	Vial Lot #		
Misc.	Nitrogen Bath Temperature: 35 C	Sonicator Amplitude: —	Balance ID: Mettler PJ400		
Prep Start Time: 12:30	Prep End Time: 13:00 1-15-15	Soxhlett Start Time: 15:00	Soxhlett Start Time:		

Ext. Date	Ext. Init.	Sample ID	Initial Weight (g)	Surr. Vol. (mL)	Spike Vol. (mL)	Fraction Pest	Fraction PCB	Pre-GPC Date Conc.	Pre-GPC Conc. Init.	Pre-GPC Final Vol. (mL)	Acid Wash	Post-GPC Date Conc.	Post-GPC Conc. Init.	Post-GPC Final Vol. (mL)	Tray Loc. PP87	Comments
1-15-15	[illegible]	WG157001-1	30.01	1.0	NR		✓					1-16-15	WAB	10mL	A4	R 304883
↓	↓	-2	30.02	↓	1.0		↓					↓	↓	↓	A5	
		-3	30.05		↓										A6	
		-4	30.05								←					Toxa GC1477

WO51760

EX-010 – Revision 2 – 04/18/2014 QAEX278 0000052

Ext. Date	Ext. Init.	Sample ID	Initial Weight (g)	Surr. Vol. (mL)	Spike Vol. (mL)	Fraction Pest	Fraction PCB	Pre-GPC Date Conc.	Pre-GPC Conc. Init.	Pre-GPC Final Vol. (mL)	Acid Wash	Post-GPC Date Conc.	Post-GPC Conc. Init.	Post-GPC Final Vol. (mL)	Tray Loc. PP87	Comments
1-15-15	[illegible]	SI0230-1G	30.04	1.0	NR		✓				✓	1-16-15	WAB	10mL	A7	
↓	↓	SI0199-1E	30.75	↓	↓		↓				↓	↓	↓	↓	A8	
		-3E	31.75												A9	
		-4F	30.06												A10	
		-5D	30.42												A11	
		-6F	30.83												A12	

WO51763

Reviewed By______________________ Date______________________

PIP SEP POU SPLP

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS PESTICIDE/PCB

Extraction Method: (check one)	SW846 3520 (CLLE)		SW846 3510 (SEP) ✓		SW846 3535 (SPE)	
Analytical Method: (check one)	SW846 8081 ✓	SW846 8082 ✓	EPA 608	CLP OLM04.2	CLP OLC2.1	Other: ✓
Standards	Surrogate ID: GC1464		Spike ID: GC1471 Pest		Spike ID: PCB GC1469	
Solvents	Solvent Lot # (MeCl2): A877		Solvent Lot # (Hexane): DL232		Solvent Lot # (Acetone): —	
Consumables	Filter Paper Lot # 96069461		Acid Lot # 65072		$NaSO_4$ Lot # 27964004	
Nitrogen Bath Temperature: 37°C		Vial Lot #:				
Prep Start Time: 11:45		Prep End Time: 13:30		CLLE Start Time:		CLLE End Time:

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction: Pest	Fraction: PCB	Final Vol. mL	Date Conc.	Tray Location (PP18)	Initials	Clean-Up: GPC	Clean-Up: Flor.	Clean-Up: Acid Wash	Clean-Up: Other	Comments
1-14-15	JMS	WG156929-1 WG156930-1	1000	1mL	NA	✓	✓	10mL	1-14-15	C10	WMS			✓		R3047 43 Pest
		WG156929-2			1mL					C11						R3047 43 PCB
		-3								C12						
		-4	1040							D1						MS S10172-14X
		-5								D2						MSD 2
		WG156930-5	1030		NA	✓				P3						SPLP Blank P071222A
		WG156930-2	1000		1mL	✓				D4						
		-3								D5						
		-4								D6						
		-5	1020												JMS	~~TOX~~ GC1446
1-14-15	JMS	WG156930-6	1000	1mL	NA	✓		✓	✓	D7	✓					tchlor GC1465

EX-002 – Revision 1 – 10/15/09

QAEX277 0000006

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction: Pest	Fraction: PCB	Final Vol. mL	Date Conc.	Tray Location (PP18)	Initials	Clean-Up: GPC	Clean-Up: Flor.	Clean-Up: Acid Wash	Clean-Up: Other	Comments
1-14-15	JMS	S10142-3 H	1060	1mL	NA		✓	10mL	1-14-15	D8	WMS			✓		
		-4 H								D9						
		-6 H	1040							D10						
		-7 H	1060							D11						
		-8 H								D12						
		S10171-3 b1	980			✓	✓			E1						~~SPLP~~ MS/MSD SPLP
		-13 X	1020							E2						
		S10172-14 W	1060				✓			E3						MSD
		S10199-8 I	1020			✓	✓			E4						
		S10230-2 F	1060				✓			E5						
		-3 F					✓			E6						
		-4 F					✓			E7						

WMS 1-14-15

EX-002 – Revision 1 – 10/15/09

QAEX277 0000

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC07

Amount Injected: 2 uL

Column Numbers: 406/407

Method: SW846 (8082) EPA 608
(circle)

Standard	Standard ID

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
12-29-14	JS	7HL374	AR1660 1.0	✓	WG156298-1,2	PCB 078	P7477
		375	0.05		-3,4		P7478
		376	0.10		-5,6		P7479
		377	0.25		-7,8		P7481
		378	2.5		-9,10		P7480
		379	10		-11,12		P7476
		380	AR1016 1.0		-13		P7482
		381	AR1260 1.0		-14		P7483
		382	AR1242 1.0		-15,16		P7418
		383	0.05		-17,18		P7484
		384	0.1		-19,20		P7485
		385	0.25		-21,22		P7486
		386	2.5		-23,24		P7487
		387	10		-25,26		P7417
		388	AR1248 1.0		-27,28		P7343
		389	0.05		-29,30		P7344
		390	0.1		-31,32		P7345
		391	0.25		-33,34		P7346
		392	2.5		-35,36		P7347
		393	10		-37,38		P7303
		394	AR1254 1.0		-39,40		P7416
		395	0.05		-41,42		P7488
12-30-14		396	0.1		-43,44		P7489
		397	0.25		-45,46		P7490
		398	2.5		-47,48		P7491
		399	10		-49,50		P7310
		400	AR1221 1.0		-51,52		P7327
		401	0.05		-53,54		P7324
		402	0.1		-55,56		P7325
		403	0.25		-57,58		P7326

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC07

Amount Injected: 2 uL

Column Numbers: 406/407

Method: SW846 (8082) / EPA 608 (circle)

Standard	Standard ID
AR1660 1.0	P7477
AR1242 ↓	P7418
AR1254 ↓	P7416
AR1660 0.25	P7481

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
12-30-14	JLR	THL 404	AR1221 2.5	Y	WG156298-9/6	PC8078	P7328
		405	↓ 10		-101,62		P7323
		406	AR1232 1.0		-63,64		P7333
		407	0.05		-65,66		P7330
		408	0.1		-67,68		P7331
		409	0.25		-69,70		P7332
		410	2.5		-71,72		P7334
		411	↓ 10		-73,74		P7329
		412	AR1262 1.0		-75,76		P7423
		413	AR1268 1.0	↓	↓ 77,78		P7429
		414	AR1254 TII	Y	WG156352		
		415	WG156302-1 3580				1:2 500/1000
		416	TH0839-1DL	↓			1:2 ↓
		417	WG156302-2				1:10 100/1000
		418	↓ -3				↓ ↓
		419	TH0816-1DL ↓	↓			↓ ↓
		420	RINSE	N			oil samples
		421	AR1660 1.0	Y	-1,2		
		422	AR1242 ↓	↓			
		423	AR1254 ↓	↓			
		424	WG156105-1 3550	Y			
		425	↓ -2				
		426	↓ -3				
		427	TH0767-1				TVATB
		428	TH0783-1				
		429	↓ -2				
		430	↓ -3				DMB
		431	TH0784-1 ↓	↓			
		432	RINSE	N			colored soils
↓	↓	↓	433 AR1660 0.25	Y	↓ -3,4	↓	

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC07

Amount Injected: 2 uL

Column Numbers: 406 | 407

Method: SW846 (8082) / EPA 608 (circle)

Standard	Standard ID
AR1660 1.0	P7477
AR1242 ↓	P7418
AR1254 ↓	P7416
AR1660 0.25	P7481

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
1-14-15	JLP	71AZ11	S10167-12 3550	Y	WG156844	PCB078	
		Z12	-13				
		Z13	-14				
		Z14	-15				
		Z15	-16				
		Z16	-17				
		Z17	-18				
		Z18	-19				
		Z19	-20				
		Z20	RINSE	N			Colored soils
		Z21	AR1660 1.0	Y			
		Z22	AR1242 ↓	↓			
		Z23	AR1254 ↓	↓			
		Z24	S10167-21 3550	Y			
		Z25	-22				
		Z26	-23				
		Z27	-24				
		Z28	WG156829-4				
		Z29	-5				
↓	↓	↓ 231	AR1660 0.25	↓	↓	↓	TB
		New liner + septa					
1-15-15	JLP	7JA232	Prime	N	WG156982	PCB078	
		233	AR1660 1.0	Y	-12		
		234	AR1242 ↓	Y			
		235	AR1254 ↓	Y			
		236	WG156929-1 3510				
		237	-2				
		238	-3				
		239	-4				
↓	↓	↓ Z40	-5	↓	↓	↓	

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC07

Amount Injected: 2 uL

Column Numbers: 406/407

Method: SW846 8082 / EPA 608 (circle)

Standard	Standard ID
AR1660 1.0	P7477
AR1242 ↓	P7478
AR1254 ↓	P7416
AR1660 0.25	P7481

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
1-15-15	JLP	241	WG156929-6 3510	Y	WG156982	PCB078	
		242	S10230-2	Y			T+D↓A+B
		243	-3	↓			T+D↓A+B
		244	-4	↓			D↓A+B
		245	S10242,4	Y			D↓A+B
		246	AR1660 0.25	Y	-3,4		
		247	AR1242 1.0	↓			
		248	AR1254 1.0	↓			
		249	S10142-3 3510				
		250	-4				
		251	-6				
		252	-7				
		253	-8				
		254	S10173				
		255	↓ -13	↓			
1-16-15		256	AR1660 1.0				ST0199-8 JLP 011615
1-16-15		257	AR1660 1.0	Y	-5,6		
↓	↓	258	AR1242 ↓	↓	↓	↓	
1-16-15	JLP	259	AR1254 ↓	↓	↓	↓	
		260	Prime	N	WG	PCB078	
		261	AR1660 1.0	Y			
		262	AR1242 ↓	↓			
		263	AR1254 ↓	↓			

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC07

Amount Injected: 2 uL

Column Numbers: 406 | 407

Method: SW846 (8082) / EPA 608 (circle)

Standard	Standard ID
AR1660 1.0	P7477
AR1242 ↓	P7418
AR1254 ↓	P7416
AR1660 0.25	P7481

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
1-16-15	JW	71A271	WG156990-2 3550	Y	WG157047	PCB078	
		272	↓ -3				
		273	S10258-1				
		274	↓ -2				
		275	AR1660 0.05		-3,4		
		276	AR1242 1.0				
↓	↓	277	AR1254 1.0	↓	↓	↓	
1-19-15	JW	278	Prime	N	WG157171	PCB078	
		279	AR1660 1.0	Y	-1,2		
		280	AR1242 ↓				
		281	AR1254 ↓	↓			
		282	WG157001-1 3550	Y			
		283	↓ -2				
		284	↓ -3				
		285	S10230-1				
		286	S10199-3				
		287	-4				
		288	-5				
		289	-6	↓			
		290	↓ -1				
		291	RINSE	N			
		292	AR1660 0.25	Y	-3,4		
		293	AR1242 1.0				
		294	AR1254 1.0	↓			
		295	S10171-2 3540				
		296	-4				
		297	-6				
		298	-7				
		299	-8	N		@ 1:10	
↓	↓	300	↓ -9	↓	↓	↓	

TOTAL PETROLEUM HYDROCARBON

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** SL
Lab Code: KAS **SDG:** SI0230

Client Sample ID	Lab Sample ID	Col. ID	OTP	#
IDWS-0312-011315	SI0230-1	A	64.0	
Method Blank Sample	WG157164-1	A	89.5	
Laboratory Control S	WG157164-2	A	92.0	
Laboratory Control S	WG157164-3	A	96.0	

		QC Limits
OTP	O-TERPHENYL	28-101

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG157164-1
Lab File ID : AIA20237.D
Date Extracted : 19-JAN-15
Instrument ID : GC10
Date Analyzed : 19-JAN-15
Matrix : SL
Time Analyzed : 17:38

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG157164-2	AIA20238.D	01/19/15	18:14
Laboratory Control S	WG157164-3	AIA20239.D	01/19/15	18:49
IDWS-0312-011315	SI0230-1	AIA20240.D	01/19/15	19:25

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services **SDG :** SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, **Column ID :** A
Instrument ID : GC10

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	OTP	
Initial Calibration	WG143219-9	05/20/14	15:00	11.64	
Initial Calibration	WG143219-11	05/20/14	15:36	11.65	
Initial Calibration	WG143219-10	05/20/14	16:11	11.64	
Initial Calibration	WG143219-8	05/20/14	16:47	11.64	
Initial Calibration	WG143219-7	05/20/14	17:22	11.64	
Independent Source	WG143219-12	05/20/14	17:58		
Continuing Calibrati	WG157172-1	01/19/15	12:15	10.87	
Method Blank Sample	WG157164-1	01/19/15	17:38	10.87	
Laboratory Control S	WG157164-2	01/19/15	18:14	10.87	
Laboratory Control S	WG157164-3	01/19/15	18:49	10.87	
IDWS-0312-011315	SI0230-1	01/19/15	19:25	10.87	
Continuing Calibrati	WG157172-2	01/19/15	21:48	10.87	

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI0230-1
Client ID: IDWS-0312-011315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI0230
Lab File ID: AIA20240.D

Sample Date: 13-JAN-15
Received Date: 14-JAN-15
Extract Date: 19-JAN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG157164

Analysis Date: 19-JAN-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: 79.
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C9-C36		11	mg/Kgdrywt	1	5	5.2	2.7	4.0
o-Terphenyl		64.0	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20240.D
Report Date: 20-Jan-2015 10:07

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20240.D
Lab Smp Id: SI0230-1 Client Smp ID: IDWS-0312-011315
Inj Date : 19-JAN-2015 19:25
Operator : JLP Inst ID: gc10.i
Smp Info : SI0230-1
Misc Info : WG157172,WG157164,WG143219-9
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10IA19.b\tph09b.m
Meth Date : 20-Jan-2015 08:57 jprescott Quant Type: ESTD
Cal Date : 20-MAY-2014 17:22 Cal File: AHE20127A.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Subtraction File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20229.D
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03630	Weight of Sample (Kg)
M	20.570	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
						ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	10.865	10.901	-0.036	499017		12.8181	0.444(M)	
S 10 Extractable TPH C9-C36	2.317-19.419			11706699		328.455	11.4(M)	

QC Flag Legend

M - Compound response manually integrated.

WAS

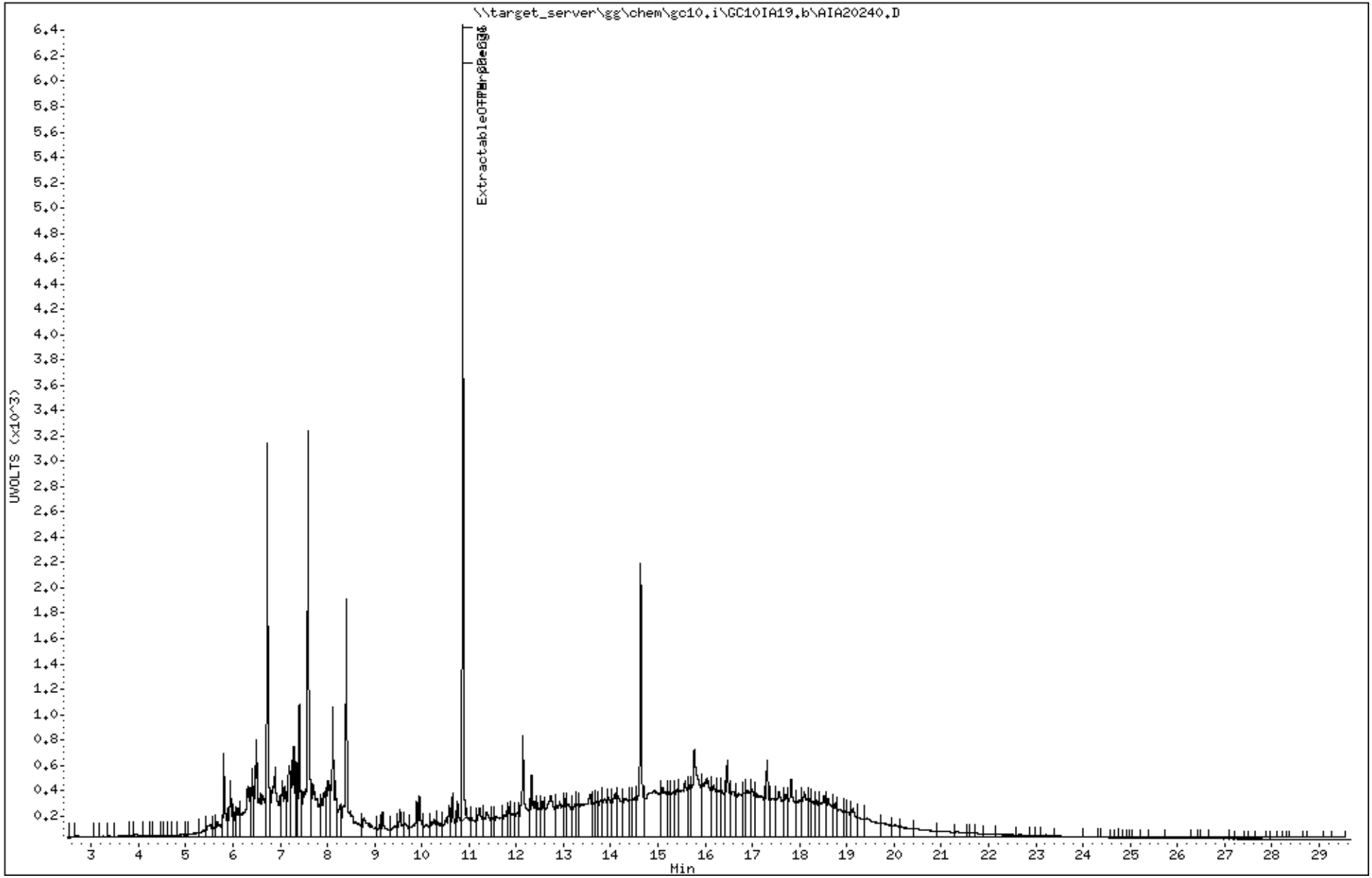
3:21 pm, Jan 21, 2015

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20240.D
Date : 19-JAN-2015 19:25
Client ID: IDWS-0312-011315
Sample Info: SI0230-1

Instrument: gc10.i

Operator: JLP
Column diameter: 0.25

Column phase: ZB-1



Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: SI0230
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N
Instrument ID: GC10
Lab File IDs : AHE20127A.AHE20126A.AHE20123A. AHE20125A.AHE20124A.
Column ID: A
Calibration Date(s): 20-MAY-14 15:00 20-MAY-14 17:22

	5.0000 Level 1	20.0000 Level 2	50.0000 Level 3	100.0000 Level 4	200.0000 Level 5		New Crv	b	m1	m2	%RSD	Max %RSD	
C-9	171028	714309	1769083	3478879	7048479		LNR	0.05092	35180		0.99995	0.99000	O
C-10	172839	721029	1786606	3520877	7110701		LNR	0.00619	35502		0.99997	0.99000	O
C-12	173460	724889	1795911	3541524	7152156		LNR	0.01744	35711		0.99997	0.99000	O
C-14	174978	728899	1806076	3555595	7193427		LNR	0.03168	35909		0.99996	0.99000	O
C-16	176399	734494	1818105	3899607	7239682		LNR	-0.65130	36601		0.99847	0.99000	O
C-18	177028	737909	1824593	3601762	7277140		LNR	0.02908	36333		0.99997	0.99000	O
C-19	176166	733588	1813903	3579499	7234739		LNR	0.03140	36119		0.99996	0.99000	O
C-20	175662	735967	1818652	3152793	6417615		LNR	-1.95581	31807		0.99856	0.99000	O
C-22	176729	741945	1828768	3325602	6642477		LNR	-1.64903	33036		0.99932	0.99000	O
C-24	177481	733754	1834591	3424533	6870357		LNR	-1.01172	34221		0.99967	0.99000	O
C-26	174689	727541	1772814	3466506	6943033		LNR	-0.44673	34645		0.99995	0.99000	O
C-28	174846	729927	1815686	3513403	7043696		LNR	-0.45167	35153		0.99992	0.99000	O
C-30	173897	724822	1779864	3519760	6981059		LNR	-0.45350	34892		0.99996	0.99000	O
C-36	161285	687834	1736736	3467529	7042197		LNR	0.50719	35207		0.99995	0.99000	O
Extractable TPH	2436492	10176911	25201394	49047875	98196763		LNR	-5.89194	35014		0.99995	0.99000	M (
O-Terphenyl	76668	317098	783687	1541899	3120597		LNR	0.00157	38935		0.99995	0.99000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20128A.D
Report Date: 09-Jun-2014 16:41

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: DRO
Lab Smp Id:
Level: LOW Operator: AC
Data Type: GC DATA SampleType: LCS
SpikeList File: IND_CHECK.spk Quant Type: ESTD
Sublist File: INDSOURCE.sub
Method File: \\target_server\gg\chem\gc10.i\GC10HE20.b\tph09b.m
Misc Info: WG143219,WG143219,WG143219-12,SH3201-2

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
2 C-9	50.0	49.5	99.00	80-120
3 C-10	50.0	49.4	98.82	80-120
4 C-12	50.0	49.7	99.41	80-120
5 C-14	50.0	49.7	99.37	80-120
6 C-16	50.0	47.9	95.79	80-120
7 C-18	50.0	49.5	99.03	80-120
9 C-19	50.0	49.5	98.94	80-120
11 C-20	50.0	54.2	108.50	80-120
12 C-22	50.0	49.1	98.27	80-120
13 C-24	50.0	48.6	97.13	80-120
14 C-26	50.0	49.3	98.54	80-120
15 C-28	50.0	49.2	98.43	80-120
16 C-30	50.0	50.4	100.74	80-120
17 C-36	50.0	49.2	98.51	80-120

Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20123A.D
Report Date: 09-Jun-2014 16:29

Katahdin Analytical Services

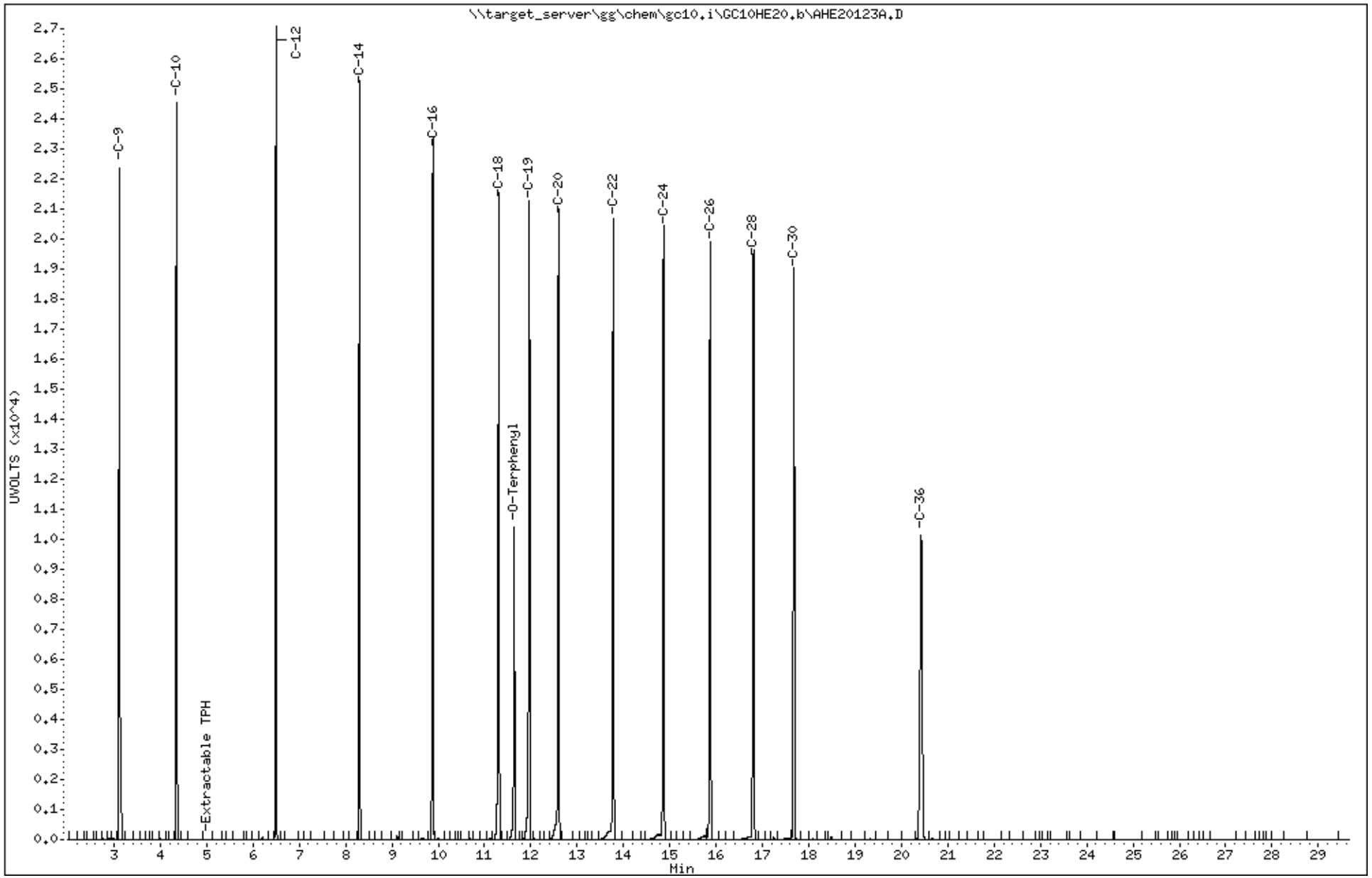
Data file : \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20123A.D
Lab Smp Id: WG143219-9
Inj Date : 20-MAY-2014 15:00
Operator : AC   Inst ID: gc10.i
Smp Info : WG143219-9
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10HE20.b\tph09b.m
Meth Date : 21-May-2014 14:50 acronin   Quant Type: ESTD
Cal Date : 20-MAY-2014 15:00   Cal File: AHE20123A.D
Als bottle: 51   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	3.115	3.116	-0.001	1769083	50.0000	50.0	
	3 C-10	4.349	4.349	0.000	1786606	50.0000	50.0	
	4 C-12	6.497	6.497	0.000	1795911	50.0000	50.0	
	5 C-14	8.298	8.298	0.000	1806076	50.0000	50.0	
	6 C-16	9.883	9.883	0.000	1818105	50.0000	50.0	
	7 C-18	11.305	11.305	0.000	1824593	50.0000	50.0	
$	8 O-Terphenyl	11.639	11.639	0.000	783687	20.0000	20.0	
	9 C-19	11.965	11.965	0.000	1813903	50.0000	50.0	
	11 C-20	12.596	12.596	0.000	1818652	50.0000	50.0	
	12 C-22	13.777	13.777	0.000	1828768	50.0000	50.0	
	13 C-24	14.863	14.863	0.000	1834591	50.0000	50.0	
	14 C-26	15.869	15.869	0.000	1772814	50.0000	50.0	
	15 C-28	16.804	16.804	0.000	1815686	50.0000	50.0	
	16 C-30	17.677	17.678	-0.001	1779864	50.0000	50.0	
	17 C-36	20.426	20.426	0.000	1736736	50.0000	50.0	
M	33 Extractable TPH				25201388	700.000	700	

Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20123A.D
Date : 20-MAY-2014 15:00
Client ID:
Instrument: gc10.i
Sample Info: WG143219-9
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20124A.D
Report Date: 09-Jun-2014 16:29

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20124A.D
Lab Smp Id: WG143219-11
Inj Date : 20-MAY-2014 15:36
Operator : AC Inst ID: gc10.i
Smp Info : WG143219-11
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10HE20.b\tph09b.m
Meth Date : 21-May-2014 14:50 acronin Quant Type: ESTD
Cal Date : 20-MAY-2014 15:36 Cal File: AHE20124A.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

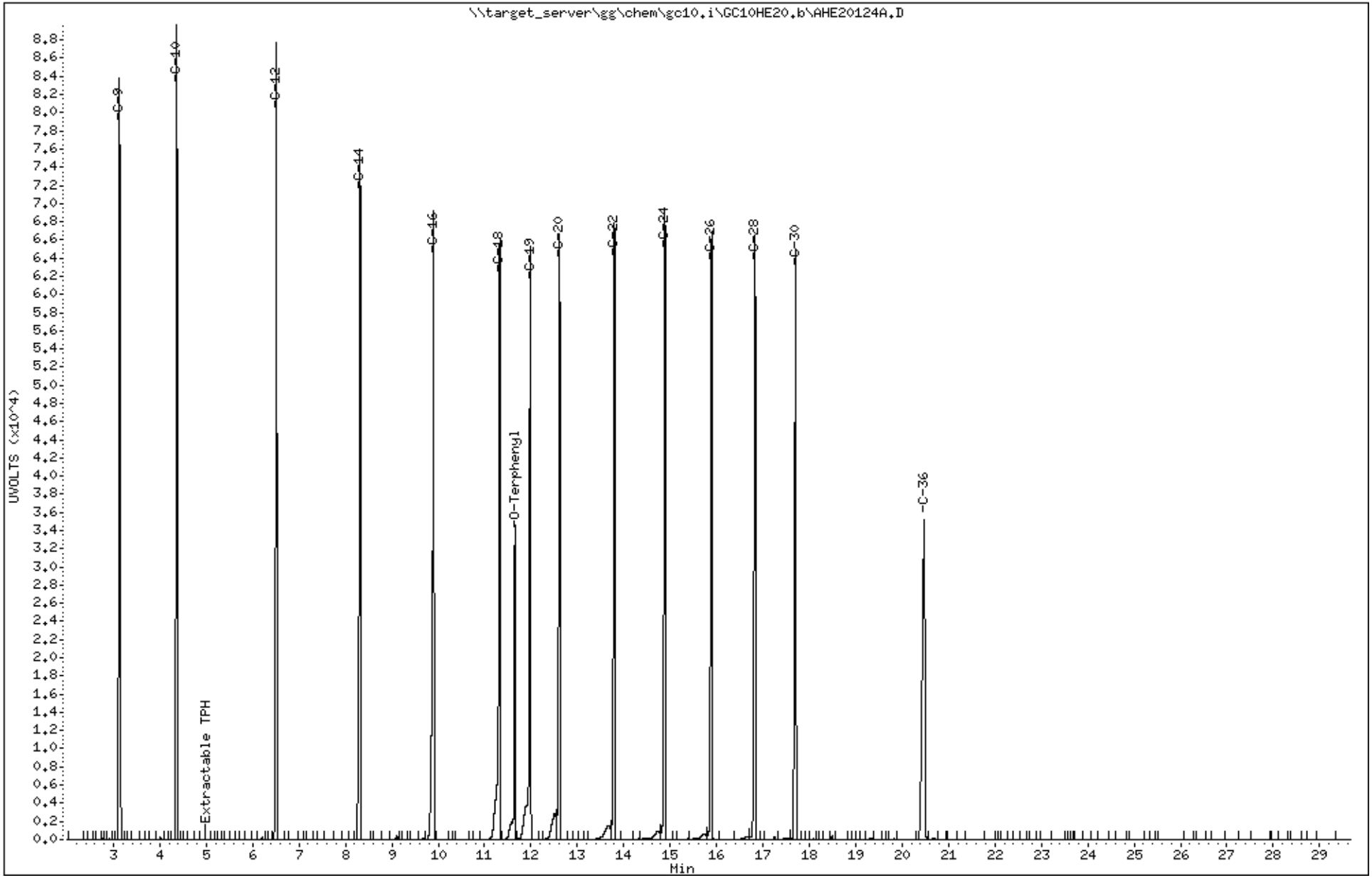
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	3.127	3.116	0.011	7048479	200.000	200	
	3 C-10	4.363	4.349	0.014	7110701	200.000	200	
	4 C-12	6.510	6.497	0.013	7152156	200.000	200	
	5 C-14	8.312	8.298	0.014	7193427	200.000	200	
	6 C-16	9.897	9.883	0.014	7239682	200.000	200	
	7 C-18	11.322	11.305	0.017	7277140	200.000	200	
$	8 O-Terphenyl	11.650	11.639	0.011	3120597	80.0000	80.0	
	9 C-19	11.981	11.965	0.016	7234739	200.000	200	
	11 C-20	12.613	12.596	0.017	6417615	200.000	199	
	12 C-22	13.795	13.777	0.018	6642477	200.000	199	
	13 C-24	14.883	14.863	0.020	6870357	200.000	199	
	14 C-26	15.889	15.869	0.020	6943033	200.000	200	
	15 C-28	16.825	16.804	0.021	7043696	200.000	200	
	16 C-30	17.699	17.678	0.021	6981059	200.000	200	
	17 C-36	20.470	20.426	0.044	7042197	200.000	200(A)	
M	33 Extractable TPH				98196758	2800.00	2800	

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20124A.D
Date : 20-MAY-2014 15:36
Client ID:
Instrument: gc10.i
Sample Info: WG143219-11
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20125A.D
Report Date: 09-Jun-2014 16:29

Katahdin Analytical Services

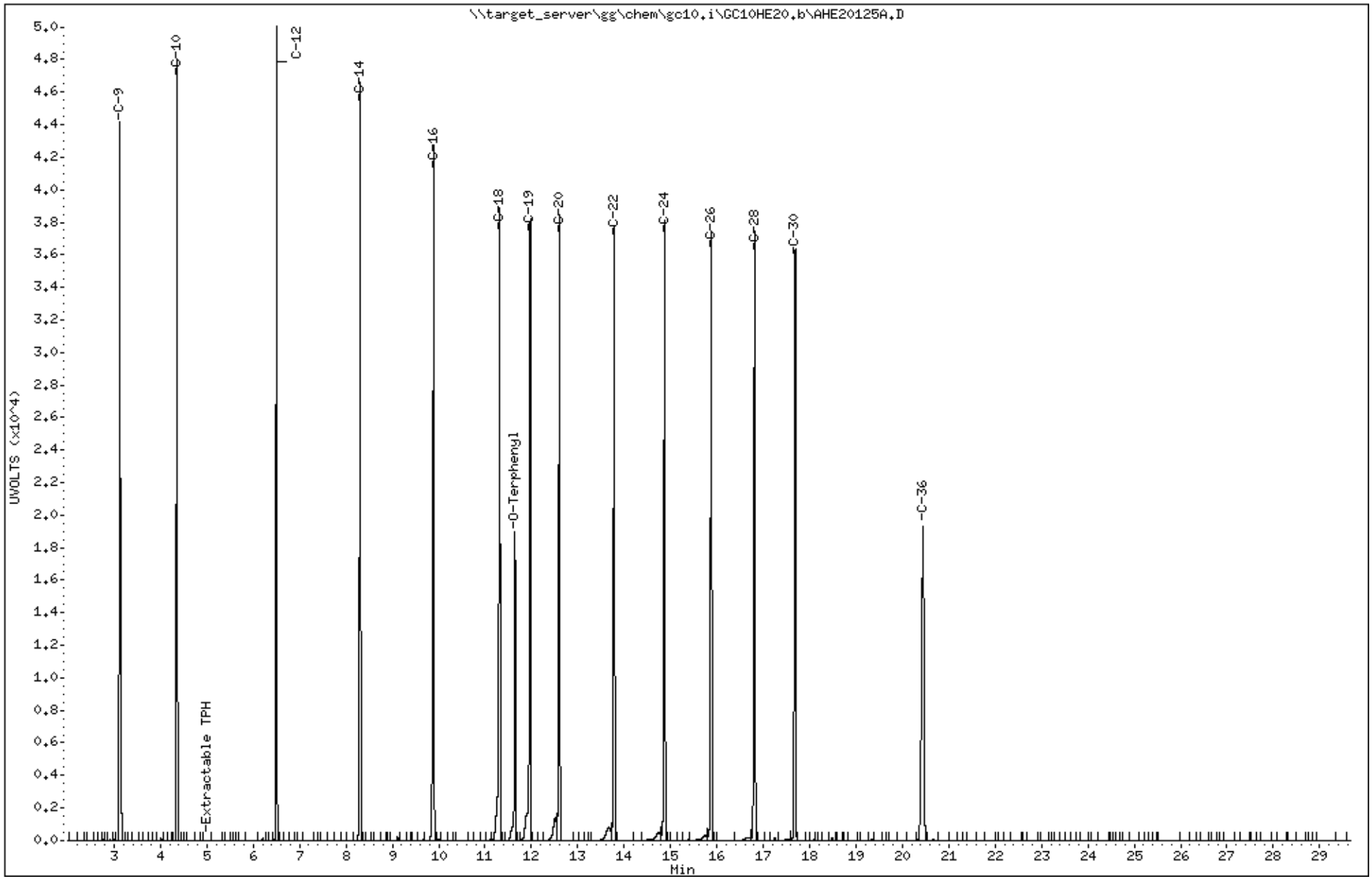
Data file : \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20125A.D
Lab Smp Id: WG143219-10
Inj Date : 20-MAY-2014 16:11
Operator : AC   Inst ID: gc10.i
Smp Info : WG143219-10
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10HE20.b\tph09b.m
Meth Date : 21-May-2014 14:50 acronin   Quant Type: ESTD
Cal Date : 20-MAY-2014 16:11   Cal File: AHE20125A.D
Als bottle: 5   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

							AMOUNTS		
		Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2	C-9	3.123	3.116	0.007	3478879	100.000	99.0	
	3	C-10	4.355	4.349	0.006	3520877	100.000	99.2	
	4	C-12	6.503	6.497	0.006	3541524	100.000	99.2	
	5	C-14	8.305	8.298	0.007	3555595	100.000	99.1	
	6	C-16	9.890	9.883	0.007	3899607	100.000	106	
	7	C-18	11.312	11.305	0.007	3601762	100.000	99.2	
$	8	O-Terphenyl	11.644	11.639	0.005	1541899	40.0000	39.6	
	9	C-19	11.971	11.965	0.006	3579499	100.000	99.2	
	11	C-20	12.602	12.596	0.006	3152793	100.000	97.1	
	12	C-22	13.783	13.777	0.006	3325602	100.000	98.9	
	13	C-24	14.871	14.863	0.008	3424533	100.000	99.0	
	14	C-26	15.877	15.869	0.008	3466506	100.000	99.6	
	15	C-28	16.812	16.804	0.008	3513403	100.000	99.5	
	16	C-30	17.686	17.678	0.008	3519760	100.000	100	
	17	C-36	20.443	20.426	0.017	3467529	100.000	99.0	
M	33	Extractable TPH				49047869	1400.00	1390	

Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20125A.D
Date : 20-MAY-2014 16:11
Client ID:
Instrument: gc10.i
Sample Info: WG143219-10
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20126A.D
Report Date: 09-Jun-2014 16:29

Katahdin Analytical Services

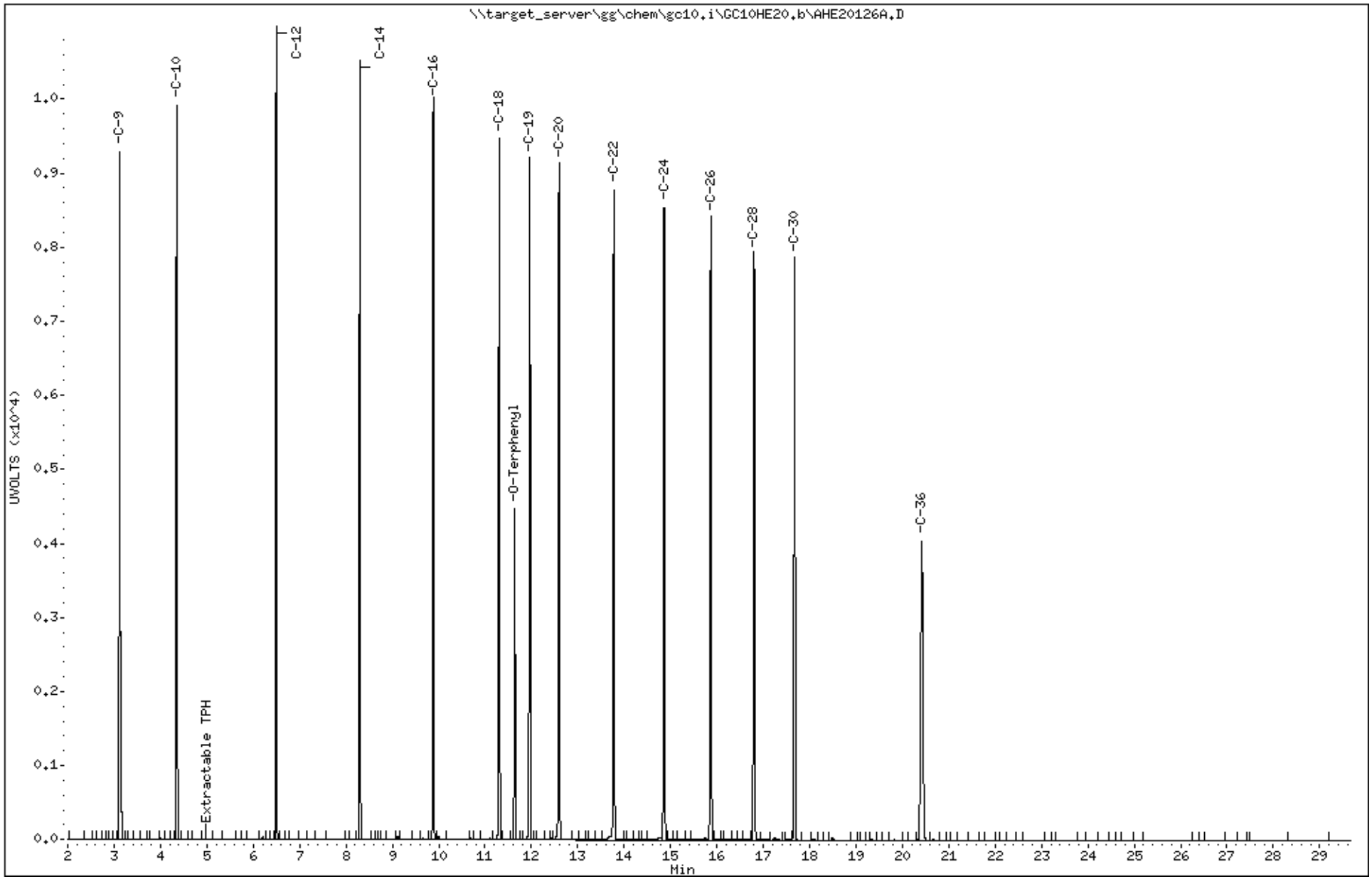
Data file : \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20126A.D
Lab Smp Id: WG143219-8
Inj Date : 20-MAY-2014 16:47
Operator : AC   Inst ID: gc10.i
Smp Info : WG143219-8
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10HE20.b\tph09b.m
Meth Date : 21-May-2014 14:50 acronin   Quant Type: ESTD
Cal Date : 20-MAY-2014 16:47   Cal File: AHE20126A.D
Als bottle: 6   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	3.119	3.116	0.003	714309	20.0000	20.3	
	3 C-10	4.348	4.349	-0.001	721029	20.0000	20.3	
	4 C-12	6.496	6.497	-0.001	724889	20.0000	20.3	
	5 C-14	8.298	8.298	0.000	728899	20.0000	20.3	
	6 C-16	9.882	9.883	-0.001	734494	20.0000	19.1	
	7 C-18	11.304	11.305	-0.001	737909	20.0000	20.3	
$	8 O-Terphenyl	11.639	11.639	0.000	317098	8.00000	8.14	
	9 C-19	11.964	11.965	-0.001	733588	20.0000	20.3	
	11 C-20	12.594	12.596	-0.002	735967	20.0000	20.7	
	12 C-22	13.775	13.777	-0.002	741945	20.0000	20.4	
	13 C-24	14.861	14.863	-0.002	733754	20.0000	20.1	
	14 C-26	15.866	15.869	-0.003	727541	20.0000	20.4	
	15 C-28	16.801	16.804	-0.003	729927	20.0000	20.1	
	16 C-30	17.675	17.678	-0.003	724822	20.0000	20.2	
	17 C-36	20.419	20.426	-0.007	687834	20.0000	20.1	
M	33 Extractable TPH				10176907	280.000	283	

Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20126A.D
Date : 20-MAY-2014 16:47
Client ID:
Instrument: gc10.i
Sample Info: WG143219-8
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20127A.D
Report Date: 09-Jun-2014 16:29

Katahdin Analytical Services

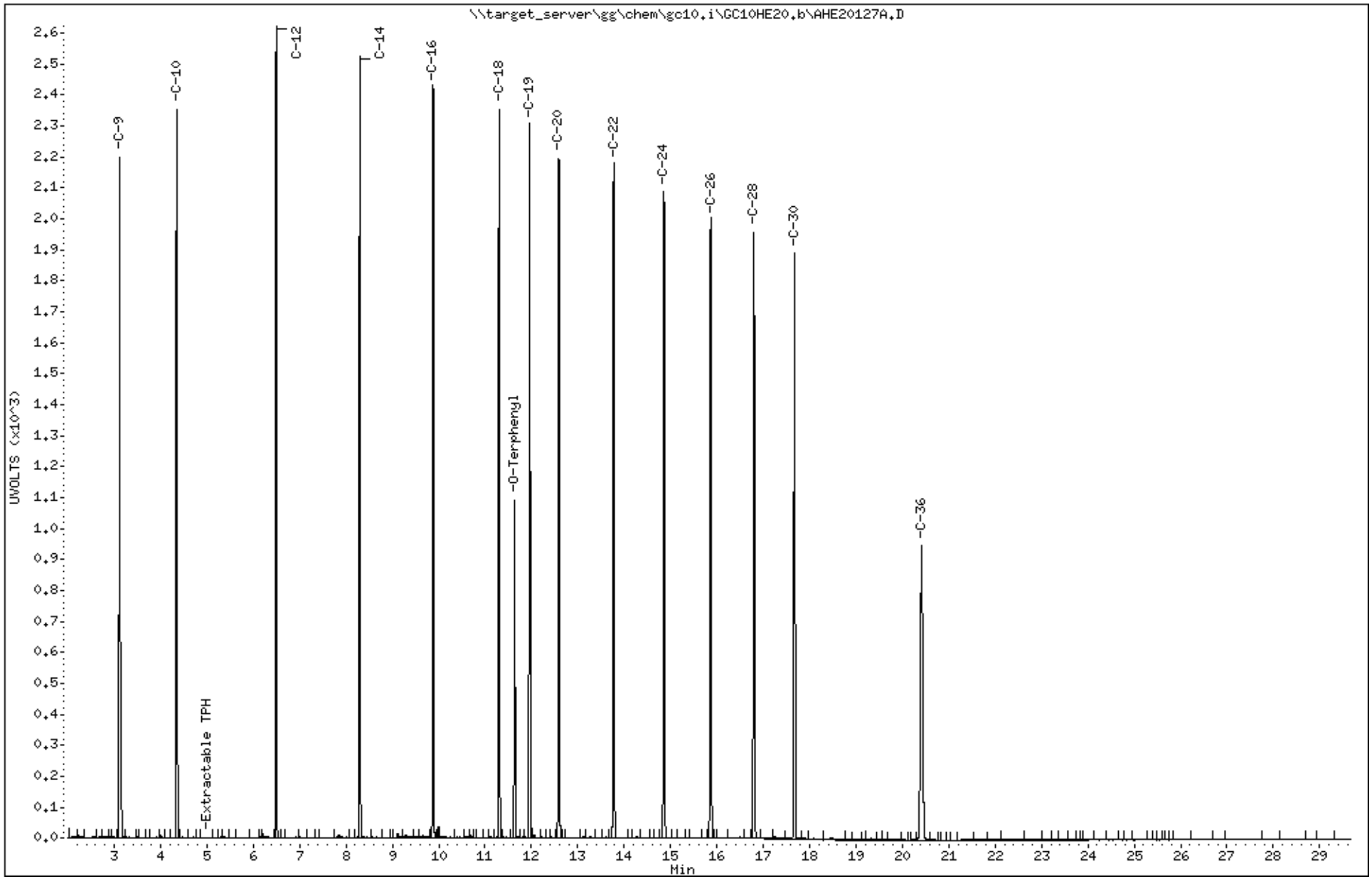
Data file : \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20127A.D
Lab Smp Id: WG143219-7
Inj Date : 20-MAY-2014 17:22
Operator : AC   Inst ID: gc10.i
Smp Info : WG143219-7
Misc Info :
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10HE20.b\tph09b.m
Meth Date : 21-May-2014 14:50 acronin   Quant Type: ESTD
Cal Date : 20-MAY-2014 17:22   Cal File: AHE20127A.D
Als bottle: 7   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	3.119	3.116	0.003	171028	5.00000	4.91	
	3 C-10	4.348	4.349	-0.001	172839	5.00000	4.87	
	4 C-12	6.495	6.497	-0.002	173460	5.00000	4.87	
	5 C-14	8.297	8.298	-0.001	174978	5.00000	4.90	
	6 C-16	9.880	9.883	-0.003	176399	5.00000	4.17	
	7 C-18	11.301	11.305	-0.004	177028	5.00000	4.90	
$	8 O-Terphenyl	11.637	11.639	-0.002	76668	2.00000	1.97	
	9 C-19	11.961	11.965	-0.004	176166	5.00000	4.91	
	11 C-20	12.592	12.596	-0.004	175662	5.00000	3.57	
	12 C-22	13.772	13.777	-0.005	176729	5.00000	3.70	
	13 C-24	14.859	14.863	-0.004	177481	5.00000	4.17	
	14 C-26	15.864	15.869	-0.005	174689	5.00000	4.60	
	15 C-28	16.799	16.804	-0.005	174846	5.00000	4.52	
	16 C-30	17.672	17.678	-0.006	173897	5.00000	4.53	
	17 C-36	20.413	20.426	-0.013	161285	5.00000	5.09	
M	33 Extractable TPH				2436487	70.0000	63.7	

Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20127A.D
Date : 20-MAY-2014 17:22
Client ID:
Instrument: gc10.i
Sample Info: WG143219-7
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20128A.D
Report Date: 09-Jun-2014 16:41

Katahdin Analytical Services

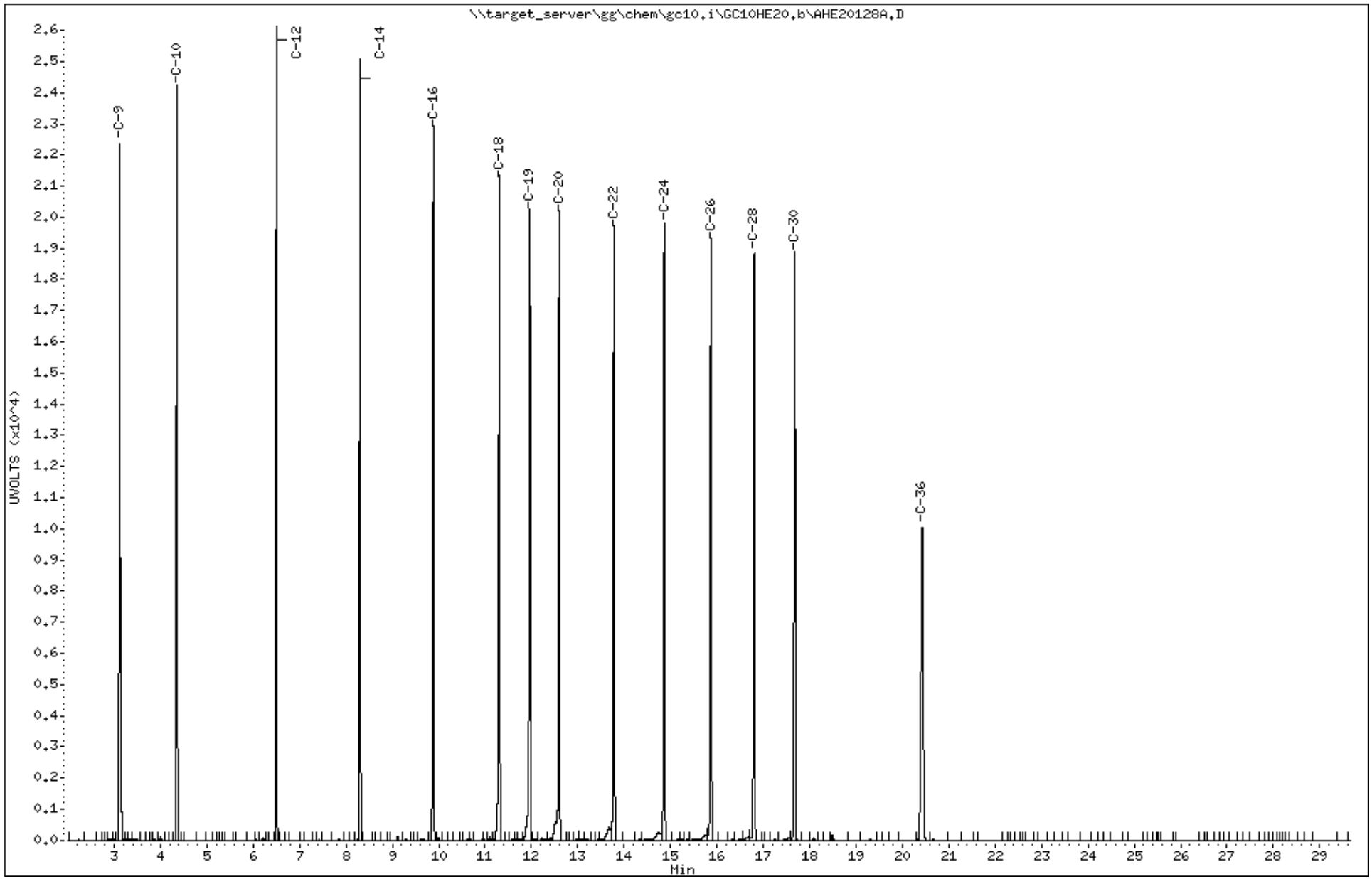
Data file : \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20128A.D
Lab Smp Id:
Inj Date : 20-MAY-2014 17:58
Operator : AC Inst ID: gc10.i
Smp Info : WG143219-12,SH3201
Misc Info : WG143219,WG143219,WG143219-12,SH3201-2
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10HE20.b\tph09b.m
Meth Date : 21-May-2014 14:50 acronin Quant Type: ESTD
Cal Date : 20-MAY-2014 17:22 Cal File: AHE20127A.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: INDSOURCE.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
2 C-9	3.122	3.116	0.006	1739594	49.4992	49.5	
3 C-10	4.352	4.349	0.003	1753908	49.4088	49.4	
4 C-12	6.499	6.497	0.002	1774396	49.7049	49.7	
5 C-14	8.301	8.298	0.003	1783006	49.6854	49.7	
6 C-16	9.884	9.883	0.001	1776903	47.8970	47.9	
7 C-18	11.305	11.305	0.000	1797967	49.5152	49.5	
9 C-19	11.966	11.965	0.001	1785733	49.4714	49.5	
11 C-20	12.596	12.596	0.000	1787692	54.2494	54.2	
12 C-22	13.777	13.777	0.000	1677713	49.1347	49.1	
13 C-24	14.863	14.863	0.000	1696510	48.5630	48.6	
14 C-26	15.869	15.869	0.000	1722331	49.2675	49.3	
15 C-28	16.804	16.804	0.000	1745902	49.2144	49.2	
16 C-30	17.678	17.678	0.000	1773327	50.3700	50.4	
17 C-36	20.427	20.426	0.001	1716248	49.2542	49.2	

Data File: \\target_server\gg\chem\gc10.i\GC10HE20.b\AHE20128A.D
Date : 20-MAY-2014 17:58
Client ID:
Instrument: gc10.i
Sample Info: WG143219-12,SH3201
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I **SDG:** SI0230
Lab ID : WG157172-1 **Analytical Date:** 01/19/15 12:15
Lab File ID : AIA20228.D **Instrument ID:** GC10
Initial Calibration Date(s): 05/20/14 15:00 05/20/14 17:22 **Column ID:** A

	Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
2	C-9	50.00000	49.69704	34931	0.010	-0.60592	20.00000	Linear
3	C-10	50.00000	49.85344	35394	0.010	-0.29313	20.00000	Linear
4	C-12	50.00000	49.57080	35392	0.010	-0.85840	20.00000	Linear
5	C-14	50.00000	49.41275	35464	0.010	-1.17450	20.00000	Linear
6	C-16	50.00000	47.86057	35511	0.010	-4.27885	20.00000	Linear
7	C-18	50.00000	49.05376	35624	0.010	-1.89249	20.00000	Linear
9	C-19	50.00000	49.21837	35532	0.010	-1.56326	20.00000	Linear
11	C-20	50.00000	53.97046	35576	0.010	7.94093	20.00000	Linear
12	C-22	50.00000	52.25002	35613	0.010	4.50004	20.00000	Linear
13	C-24	50.00000	51.01087	35606	0.010	2.02175	20.00000	Linear
14	C-26	50.00000	50.44424	35262	0.010	0.88848	20.00000	Linear
15	C-28	50.00000	49.70046	35260	0.010	-0.59908	20.00000	Linear
16	C-30	50.00000	49.81531	35079	0.010	-0.36939	20.00000	Linear
17	C-36	50.00000	51.13252	35648	0.010	2.26504	20.00000	Linear
33	Extractable TPH	700	703	35421	0.010	0.42723	20.00000	Linear
8	O-Terphenyl	20.00000	22.95087	44677	0.010	14.75434	20.00000	Linear

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20228.D
Report Date: 21-Jan-2015 15:19

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20228.D
Lab Smp Id: WG157172-1
Inj Date : 19-JAN-2015 12:15
Operator : JLP   Inst ID: gc10.i
Smp Info : WG157172-1,SI0230
Misc Info : WG157172,WG157172,WG143219-9,SI0230-1
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10IA19.b\tph09b.m
Meth Date : 20-Jan-2015 08:57 jprescott Quant Type: ESTD
Cal Date : 20-MAY-2014 17:22   Cal File: AHE20127A.D
Als bottle: 4   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Subtraction File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20226.D
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

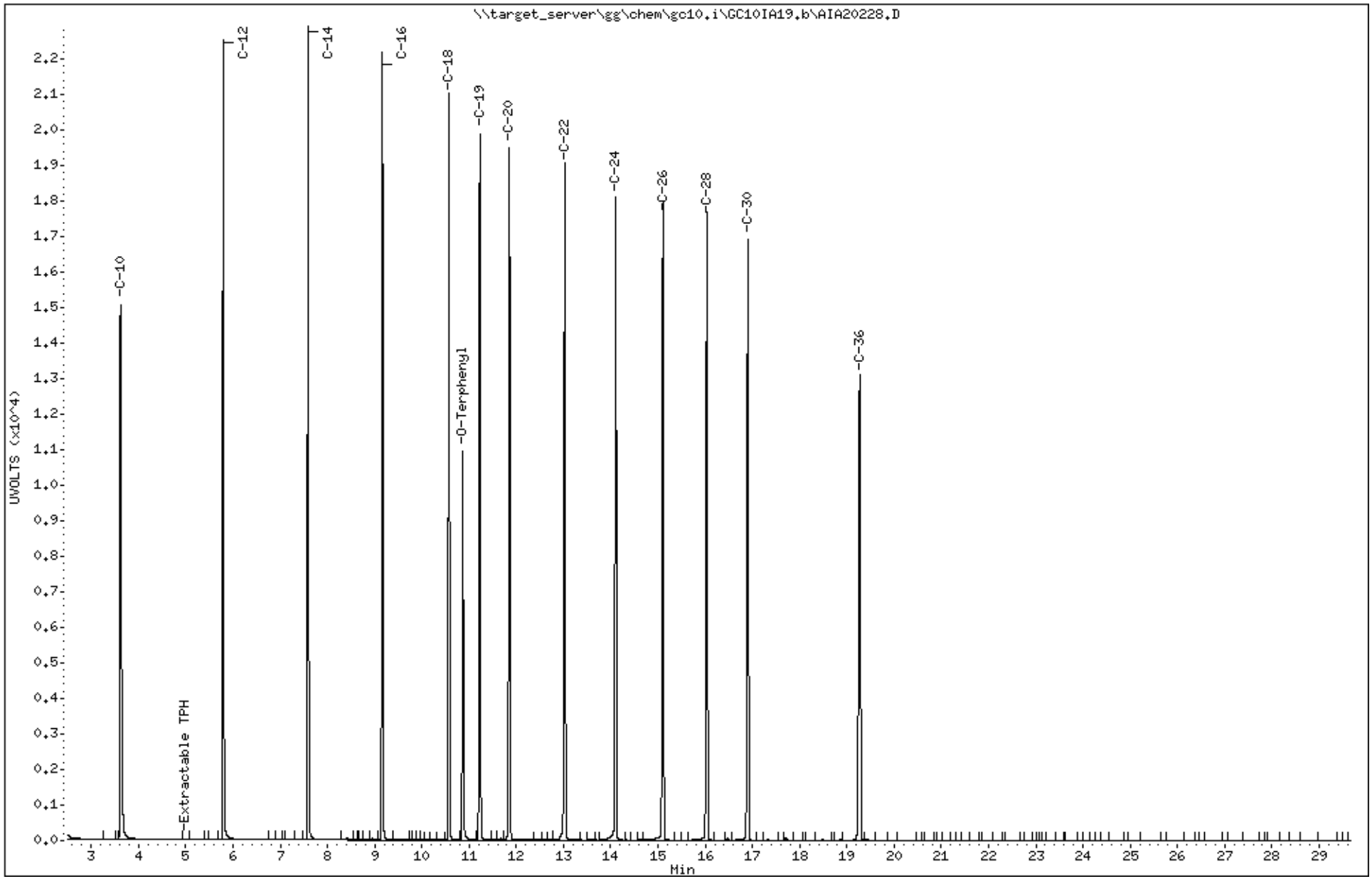
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
2	C-9	2.352	2.357	-0.005	1746554	50.0000	49.7	
3	C-10	3.618	3.659	-0.041	1769693	50.0000	49.8	
4	C-12	5.792	5.828	-0.036	1769607	50.0000	49.6	
5	C-14	7.589	7.624	-0.035	1773215	50.0000	49.4	
6	C-16	9.162	9.196	-0.034	1775568	50.0000	47.9	
7	C-18	10.572	10.606	-0.034	1781200	50.0000	49.0	
$ 8	O-Terphenyl	10.865	10.901	-0.036	893541	20.0000	23.0	
9	C-19	11.226	11.261	-0.035	1776594	50.0000	49.2	
11	C-20	11.851	11.887	-0.036	1778820	50.0000	54.0	
12	C-22	13.024	13.060	-0.036	1780631	50.0000	52.2	
13	C-24	14.103	14.141	-0.038	1780280	50.0000	51.0	
14	C-26	15.103	15.140	-0.037	1763097	50.0000	50.4	
15	C-28	16.033	16.071	-0.038	1762987	50.0000	49.7	
16	C-30	16.901	16.940	-0.039	1753974	50.0000	49.8	
17	C-36	19.268	19.319	-0.051	1782379	50.0000	51.1	
M 33	Extractable TPH				24794599	700.000	703	

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20228.D
Date : 19-JAN-2015 12:15
Client ID:
Sample Info: WG157172-1,SI0230

Instrument: gc10.i

Operator: JLP
Column phase: ZB-1
Column diameter: 0.25



Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I **SDG:** SI0230
Lab ID : WG157172-2 **Analytical Date:** 01/19/15 21:48
Lab File ID : AIA20244.D **Instrument ID:** GC10
Initial Calibration Date(s): 05/20/14 15:00 05/20/14 17:22 **Column ID:** A

Compound	RRF/Amount	RF20	CCAL RRF20	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
2 C-9	20.00000	19.86401	34866	0.010	-0.67995	20.00000	Linear
3 C-10	20.00000	20.18051	35623	0.010	0.90253	20.00000	Linear
4 C-12	20.00000	20.13121	35815	0.010	0.65605	20.00000	Linear
5 C-14	20.00000	20.05805	35924	0.010	0.29026	20.00000	Linear
6 C-16	20.00000	20.06261	36327	0.010	0.31306	20.00000	Linear
8 C-18	20.00000	19.82876	36022	0.010	-0.85618	20.00000	Linear
10 C-19	20.00000	20.09077	36296	0.010	0.45387	20.00000	Linear
11 C-20	20.00000	19.97394	36106	0.010	-0.13032	20.00000	Linear
12 C-22	20.00000	19.82807	36089	0.010	-0.85964	20.00000	Linear
13 C-24	20.00000	19.85615	36229	0.010	-0.71923	20.00000	Linear
14 C-26	20.00000	19.72628	35901	0.010	-1.36858	20.00000	Linear
15 C-28	20.00000	19.80597	35925	0.010	-0.97015	20.00000	Linear
16 C-30	20.00000	19.62641	34242	0.010	-1.86796	20.00000	Linear
17 C-36	20.00000	21.37200	36302	0.010	6.85998	20.00000	Linear
9 O-Terphenyl	8.00000	9.28257	45111	0.010	16.03211	20.00000	Linear

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20244.D
Report Date: 21-Jan-2015 15:19

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20244.D
Lab Smp Id: WG157172-2
Inj Date : 19-JAN-2015 21:48
Operator : JLP   Inst ID: gc10.i
Smp Info : WG157172-2,SI0230
Misc Info : WG157172,WG157172,WG143219-9,SI0230-1
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10IA19.b\DRO09B.m
Meth Date : 21-Jan-2015 08:03 jprescott Quant Type: ESTD
Cal Date : 20-MAY-2014 17:22   Cal File: AHE20127.D
Als bottle: 17   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: oilcv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

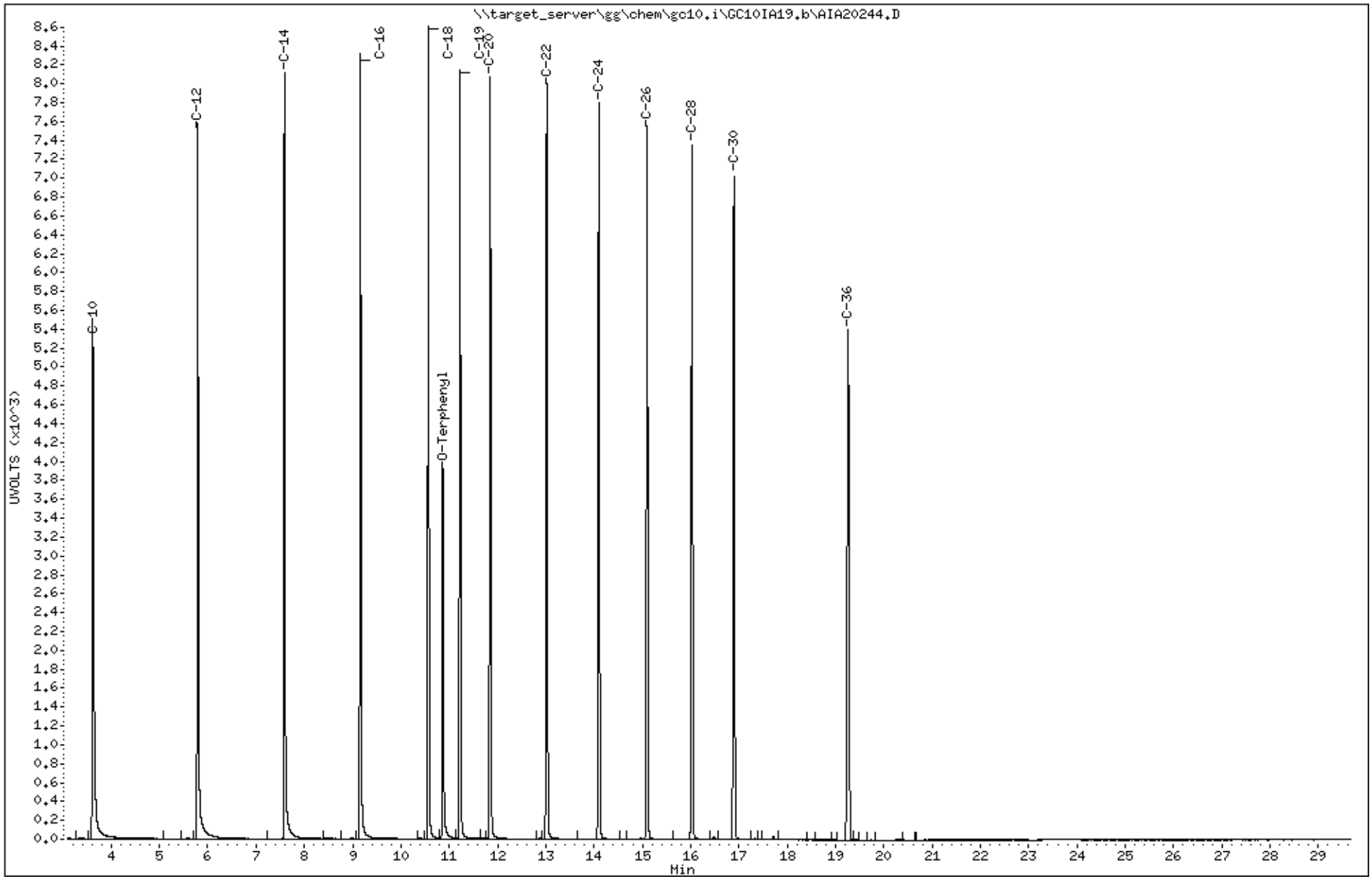
						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	2.367	2.365	0.002	697325	20.0000	19.9	
	3 C-10	3.624	3.660	-0.036	712455	20.0000	20.2	
	4 C-12	5.794	5.826	-0.032	716309	20.0000	20.1	
	5 C-14	7.589	7.623	-0.034	718487	20.0000	20.0	
	6 C-16	9.160	9.194	-0.034	726531	20.0000	20.1	
	8 C-18	10.569	10.603	-0.034	720430	20.0000	19.8	
$	9 O-Terphenyl	10.868	10.899	-0.031	360889	8.00000	9.28	
	10 C-19	11.223	11.257	-0.034	725928	20.0000	20.1	
	11 C-20	11.848	11.883	-0.035	722122	20.0000	20.0	
	12 C-22	13.020	13.056	-0.036	721778	20.0000	19.8	
	13 C-24	14.099	14.136	-0.037	724584	20.0000	19.8	
	14 C-26	15.097	15.136	-0.039	718028	20.0000	19.7	
	15 C-28	16.027	16.066	-0.039	718508	20.0000	19.8	
	16 C-30	16.895	16.935	-0.040	684839	20.0000	19.6	
	17 C-36	19.259	19.309	-0.050	726035	20.0000	21.4	
M	1 Diesel Range Organic				7199232	200.000	199	
M	32 Oil Range Organic				1410874	40.0000	41.0(a)	

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20244.D
Date : 19-JAN-2015 21:48
Client ID:
Sample Info: WG157172-2,SI0230

Instrument: gc10.i

Operator: JLP

Column phase: ZB-1
Column diameter: 0.25



Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG157164-1
Client ID: Method Blank Sample
Project:
SDG: SI0230
Lab File ID: AIA20237.D

Sample Date:
Received Date:
Extract Date: 19-JAN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG157164

Analysis Date: 19-JAN-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: NA
Report Date: 21-JAN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C9-C36	U	3.8	mg/Kgdrywt	1	5	5.0	2.6	3.8
o-Terphenyl		89.5	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20237.D
Report Date: 20-Jan-2015 10:07

Katahdin Analytical Services

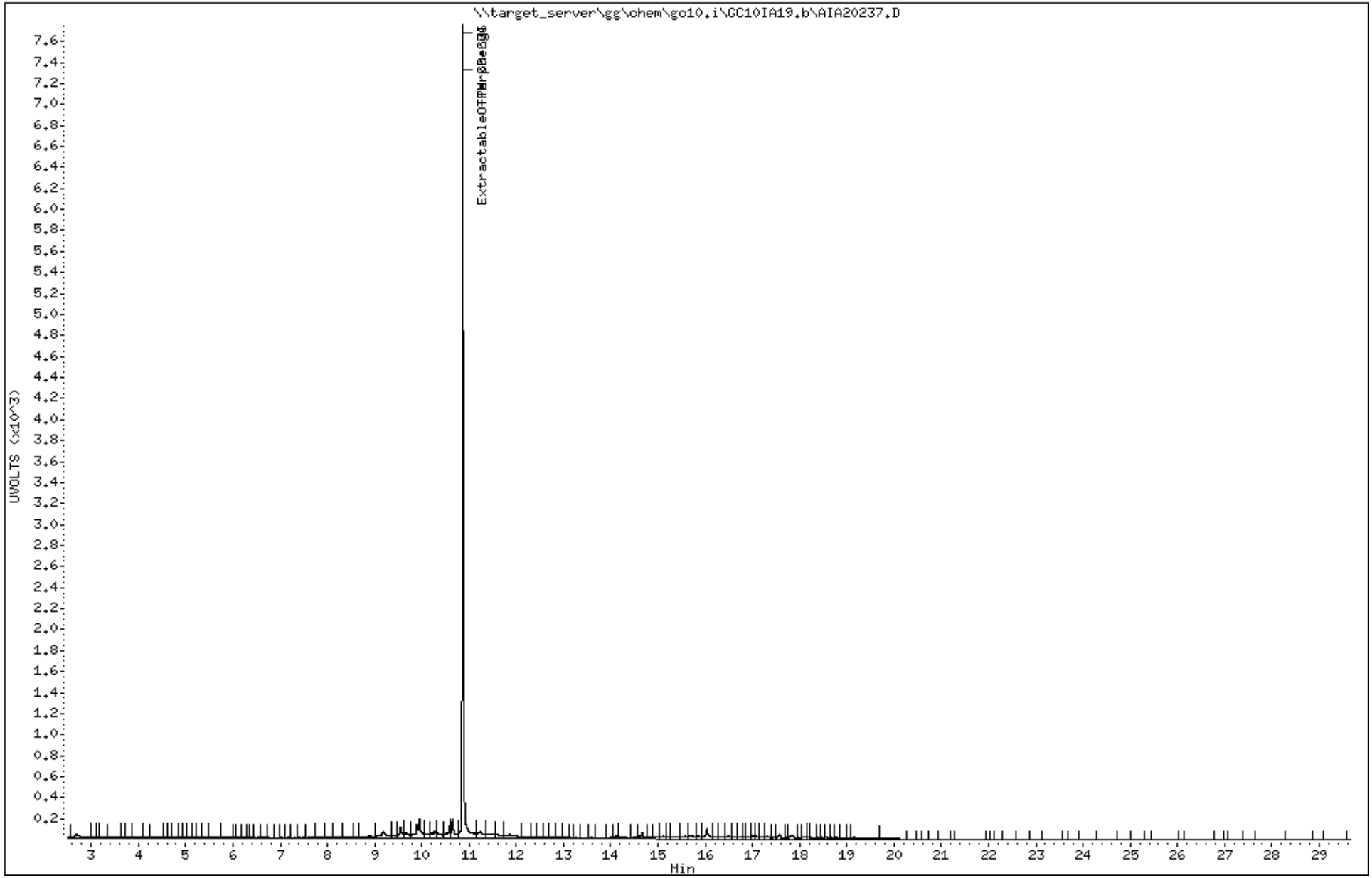
Data file : \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20237.D
Lab Smp Id: WG157164-1 Client Smp ID: WG157164-Blank
Inj Date : 19-JAN-2015 17:38
Operator : JLP Inst ID: gc10.i
Smp Info : WG157164-1,SI0230
Misc Info : WG157172,WG157164,WG143219-9,SI0230-1
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10IA19.b\tph09b.m
Meth Date : 20-Jan-2015 08:57 jprescott Quant Type: ESTD
Cal Date : 20-MAY-2014 17:22 Cal File: AHE20127A.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Subtraction File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20229.D
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	10.866	10.901	-0.035	697753	17.9223	0.597	

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20237.D
Date : 19-JAN-2015 17:38
Client ID: WG157164-Blank
Instrument: gc10.i
Sample Info: WG157164-1,SI0230
Operator: JLP
Column phase: ZB-1
Column diameter: 0.25



Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG157164-2
LCSD ID: WG157164-3
Project:
SDG: SI0230
Report Date: 21-JAN-15
LCS File ID: AIA20238.D

Received Date:
Extract Date: 19-JAN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG157164
LCSD File ID: AIA20239.D

Analysis Date: 19-JAN-15
Analyst: JLP
Analysis Method: SW846 8015D
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Extractable TPH C9-C36	16.7	10.6	63.5	11.9	71.2	mg/Kgdrywt	12	50	56-124
o-Terphenyl			92.0		96.0				28-101

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20238.D
Report Date: 20-Jan-2015 10:07

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20238.D
Lab Smp Id: WG157164-2 Client Smp ID: WG157164-LCS
Inj Date : 19-JAN-2015 18:14
Operator : JLP Inst ID: gc10.i
Smp Info : WG157164-2,SI0230
Misc Info : WG157172,WG157164,WG143219-9,SI0230-1
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10IA19.b\tph09b.m
Meth Date : 20-Jan-2015 08:57 jprescott Quant Type: ESTD
Cal Date : 20-MAY-2014 17:22 Cal File: AHE20127A.D
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Subtraction File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20229.D
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

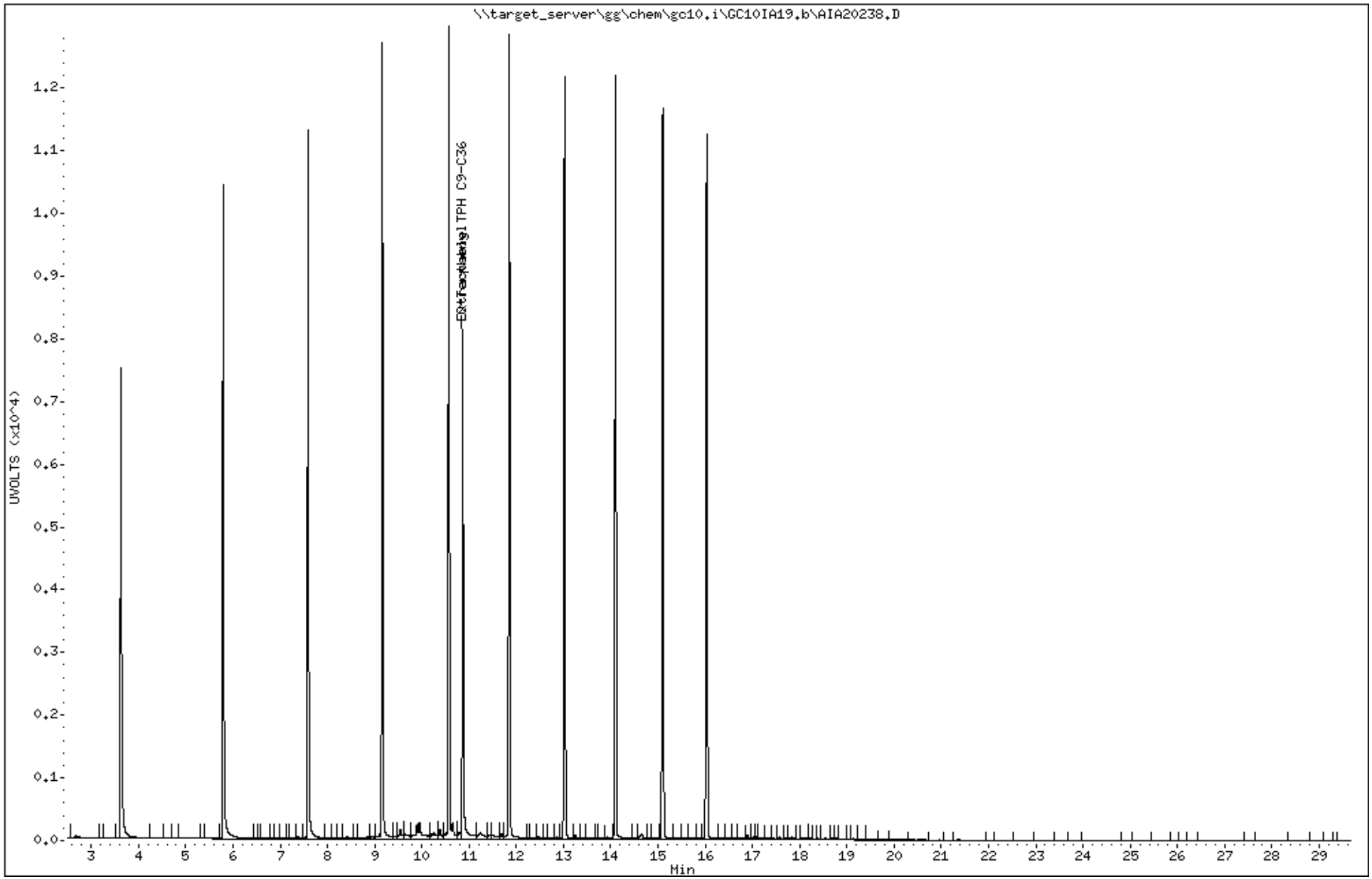
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$	8 O-Terphenyl	10.866	10.901	-0.035	717331	18.4252	0.614	
S	10 Extractable TPH C9-C36	2.317-19.419			11332473	317.767	10.6	

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20238.D
Date : 19-JAN-2015 18:14
Client ID: WG157164-LCS
Sample Info: WG157164-2,SI0230

Instrument: gc10.i

Operator: JLP
Column phase: ZB-1
Column diameter: 0.25



Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20239.D
Report Date: 20-Jan-2015 10:07

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20239.D
Lab Smp Id: WG157164-3 Client Smp ID: WG157164-LCSD
Inj Date : 19-JAN-2015 18:49
Operator : JLP Inst ID: gc10.i
Smp Info : WG157164-3,SI0230
Misc Info : WG157172,WG157164,WG143219-9,SI0230-1
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10IA19.b\tph09b.m
Meth Date : 20-Jan-2015 08:57 jprescott Quant Type: ESTD
Cal Date : 20-MAY-2014 17:22 Cal File: AHE20127A.D
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Subtraction File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20229.D
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

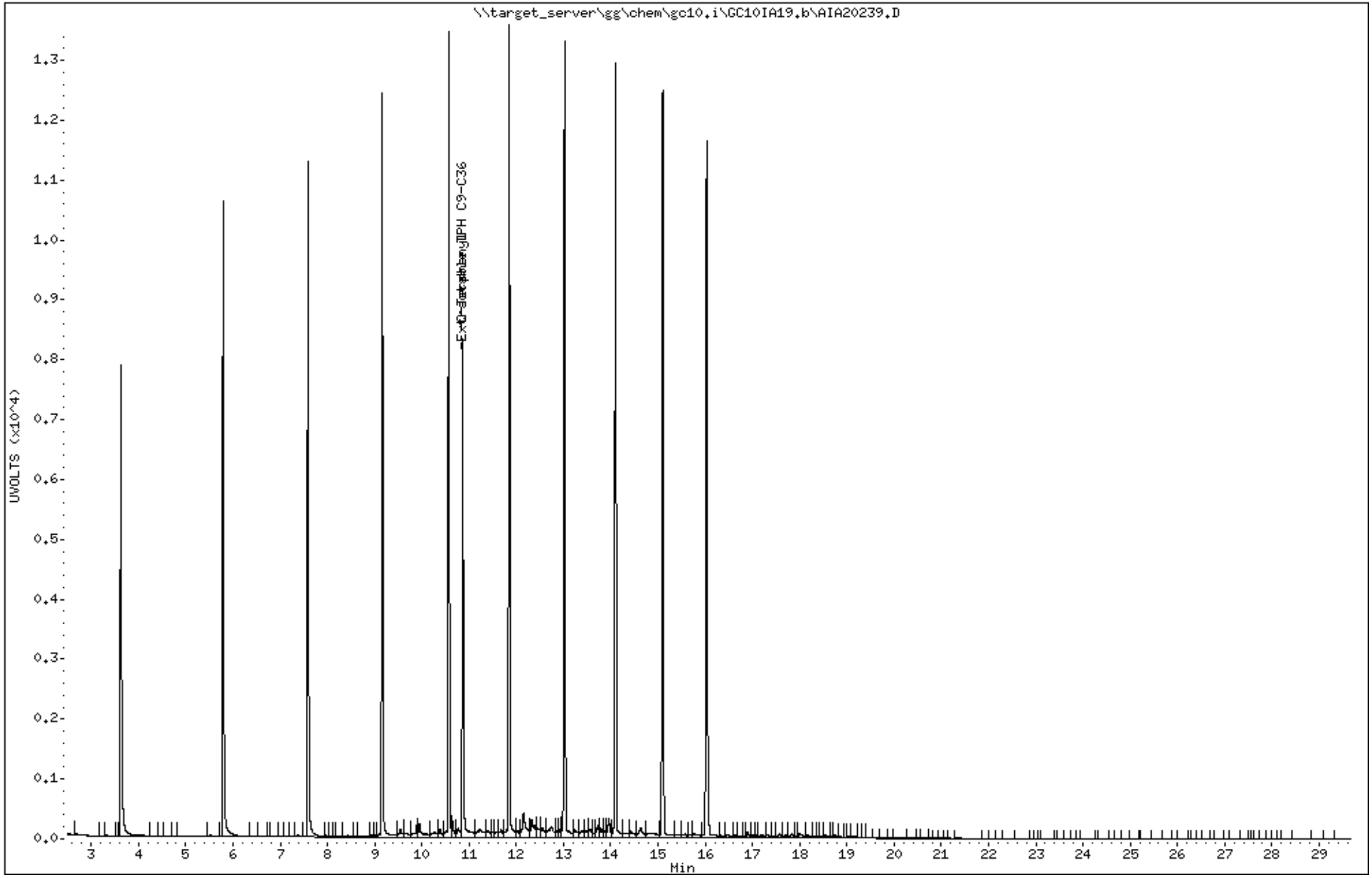
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	10.865	10.901	-0.036	747774	19.2071	0.640	
S 10 Extractable TPH C9-C36	2.317-19.419			12704642	356.956	11.9	

Data File: \\target_server\gg\chem\gc10.i\GC10IA19.b\AIA20239.D
Date : 19-JAN-2015 18:49
Client ID: WG157164-LCSD
Sample Info: WG157164-3,SI0230

Instrument: gc10.i

Operator: JLP
Column diameter: 0.25

Column phase: ZB-1



Logbooks and Supporting Documents

Dro/Dro/TPH SON

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - SOIL FUEL OILS

Extraction Method: (check one)	SW846 3540 (SOX)		SW846 3546 (MICRO)			SW846 3550 (SONIC.)	
Analytical Method: (check one)	SW8015M (DRO) ✓	SW8100M (TPH)	MADEP EPH	ME DEP 4.1.25	FLO PRO	CT ETPH	TX 1005	Other:

Spike ID: GC1472, GC1485	Surrogate ID: GC1484	Frac. Surrogate ID:	Other:
MeCl2 Lot #: DL877	Acetone Lot #: DL474	n-Pentane Lot #:	Hexane Lot #::
Filter Paper Lot # (SON) FC011630	Filter Paper Lot # (KD) 960694461	NaSO4 (Granular) Lot # 1194484	NaSO4 (Powder) Lot #: 2979003
Vial Lot #: 363240	Balance ID: Mettler BJ400	Sonicator Horns Tuned? AMP @ 40%	Nitrogen Water Bath Temperature: 35°C
Prep Start Time: 10:00	Prep End Time: 12:00	Sox/Micro Start Time:	Sox/Micro End Time:

Date Extracted	Ext. Init.	Sample ID	Init. Wt (g)	Surr Vol. (mL)	Spike Vol. (mL)	Final Vol Pre-Frac. (mL)	Date Conc. Pre-Frac.	Conc. Init. Pre-Frac.	Tray Location	Frac. Init.	Frac. Surr Vol. (mL)	Final Vol. Post-Frac. (mL)	Date Conc Post-Frac.	Tray Location	Conc. Init Post-Frac.	Comments
1-19-15	JAS	WG157104-1	29.99	1mL	NR	1mL	1-19-15	KF	E1							R305150
		-2	30.08		1mL				2							
		-3	30.09						3							
		-4	32.35						4							MS S102967B
		-5	35.04						E5				KF 1-19-15			MSD

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QAEX272

0000138

Date Extracted	Ext. Init.	Sample ID	Init. Wt (g)	Surr Vol. (mL)	Spike Vol. (mL)	Final Vol Pre-Frac. (mL)	Date Conc. Pre-Frac.	Conc. Init. Pre-Frac.	Tray Location	Frac. Init.	Frac. Surr Vol. (mL)	Final Vol. Post-Frac. (mL)	Date Conc Post-Frac.	Tray Location	Conc. Init Post-Frac.	Comments
1-19-15	JAS	S102371G	30.37	1mL	NR	1mL	1-19-15	KF	E6							
		-2G	31.16						7							
		S102301G	36.33						8							
		S102961B	31.88						9							
		-3B	34.09						E10							
		-5B	30.92						F0645 A1							
		-7B	31.17						2							very wet bag after ms/d
		-9B	31.15						3							
		-11B	34.17						4							
		-13B	32.89						5							
		-17B	32.58						6							
		-18B	31.46						7							
		-20B	36.34						8							
		-22B	32.83						9							
		-24B	32.96						A10							
		-26B	32.72						B1							
		-28B	37.38						2							
		S102301I	31.29						3							
		-2I	32.24						B4				KF 1-19-15			

EX-004 – Revision 2 – 10/01/2012

QAEX272

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC10 (FID)

Method: MADEP EPH — DRO - 8015 Mod

(circle) FL PRO — TPH - 8015 Mod

TNRCC 1005 — CT ETPH

MEDEP 4.1.25

Standard	Standard ID

Amount Injected: 1 uL Column ID: 4/21

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
			New Column #4/21				
			Change Liner Septa				
5-20-14	AC	AHE20118	TB	N	W6143219	Dro09B/TPH09B	
		119	TB	N			
		120	TB	N			
		121	TB	Y			
		122	FO	Y			
		123	PHC50	Y	~~1,13,9~~		Dro/TPH
		124	200	Y	~~2,15,11~~		
		125	100	Y	~~3,14,10~~		
		126	20	Y	~~4,102~~ 8		
		127	5	Y	~~5,111~~ 7		
		128	IND	Y	-6,12		
		129	W6143143-1	Y		TPH09B	
		130	-2	Y			
		131	-3	Y			
		132	SH3097-2DL	Y			1:5 ssl 100/500
		133	SH3199-2	Y			
		134	SH3201-2	Y			
		135	SH3202-2	Y			
		136	SH3203-2	Y			
		137	SH3204-2	Y			
		138	SH3256-1	Y			
5-21-14		139	FO	Y			
		140	PHC50	Y			
			Change Liner				

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC10 (FID)

Method: MADEP EPH — DRO - 8015 Mod

(circle) FL PRO — TPH - 8015 Mod

TNRCC 1005 — CT ETPH

MEDEP 4.1.25

Standard	Standard ID
PHC 50	MZ418
PHC 20	MZ419
FO #2	MZ416

Amount Injected: 1 uL Column ID: 421

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
1-17-15	JP	A1A20206	S10141-10 3550	N	WG156934	TPH09B	@ 1:50
		207	MeCl2	N			dark sample
		208	TB	Y			
		209	FO #2	Y			
		210	PHC 20	Y	-6		C36+
		211	S10141-12 3550	Y			
		212	-13	N			@ 1:100
		213	-1	Y			
		214	-2				
		215	WG156877-4				
		216	-5				
		217	S10172-1DL				1:5
		218	-2				
		219	-3				
		220	-4				
		221	MeCl2	N			colored sample
		222	TB	Y			
		223	FO #2	Y			
		224	PHC 50	Y	-7		C36+ OTP1
		New	liner				
1-19-15	JP	A1A20225	YB	N	WG157172	TPH09B	
		226	TB	N			
		227	FO #2	Y			
		228	PHC 50	Y	-1		
		229	TB	X			
		230	WG156877-1BA	Y			

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC10 (FID)

Method: MADEP EPH (DRO - 8015 Mod) (TPH - 8015 Mod)

(circle) FL PRO

TNRCC 1005 CT ETPH

MEDEP 4.1.25

Standard	Standard ID
PHC 50	HZ418
PHC 20	HZ419
FO #2	HZ416

Amount Injected: 1 uL Column ID: 421

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
1-19-15	JLP	ALA20231	S10172-1RA	Y	WG157172	TPH09B	
		232	S10141-9 DL				1:100
		233	-10DL				1:50
		234	-13DL				1:100
		235	MeCl2	N			heavy sample
		236	GC1485	Y			Spike
		237	WG157164-1 3550	Y		DRO09B	
		238	-2				
		239	-3				
		240	S10230-1				
		241	S10301-1				
		242	TB	Y			
		243	FO #2	Y			
		244	PHC 20	Y	-2	DRO09B	
		245	S10301-2 3550	Y			
		246	S10137-1DL	N		DRO09B	1:5 @ 1:1 100/500
		247	-2DL	N			1:5 @ 1:1
1-20-15		248	S10296-1	Y			
		249	-3DL	N			1:10 @ 1:1/1:2 100/1000
		250	-5	N			@ 1:5
		251	-7	N			@ 1:5
		252	-9	N			@ 1:5
		253	-11	Y			
		254	-13	Y			
		255	MeCl2	N			heavy sample
		256	TB	N			

METALS DATA

Sample Data Section

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	The pre-digestion spiked sample recovery is not within control limits.
*	The duplicate sample analysis relative percent difference (RPD) is not within control limits.
B	Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
A	The post-digestion spiked sample recovery is not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.
J	The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ) (previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: SI0230 **SOW No.** SW846

Client Field ID	Lab Sample ID
IDWGW-3178-011315	SI0230-002
IDWGW-EG332-011315	SI0230-004
IDWGW-EG332-011315	SI0230-004P
IDWGW-EG332-011315	SI0230-004S
IDWGW-F0A37-011315	SI0230-003
IDWS-0312-011315	SI0230-001T

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Heather Manz Name: Heather Manz

Date: 1-30-15 Title: Analyst 1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** IDWS-0312-011315

Matrix: WATER **SDG Name:** SI0230

Percent Solids: 0.00 **Lab Sample ID:** SI0230-001T

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-38-2	ARSENIC, TCLP	25	U		P	1	40	7.0	25
7440-39-3	BARIUM, TCLP	678			P	1	25	1.2	15
7440-43-9	CADMIUM, TCLP	15	U		P	1	25	0.25	15
7440-47-3	CHROMIUM, TCLP	7.1	J		P	1	50	1.8	20
7439-92-1	LEAD, TCLP	20	U		P	1	25	5.5	20
7439-97-6	MERCURY, TCLP	0.10	U		CV	1	0.20	0.013	0.10
7782-49-2	SELENIUM, TCLP	35	U		P	1	50	12.	35
7440-22-4	SILVER, TCLP	20	U		P	1	50	1.4	20

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** IDWGW-3178-011315

Matrix: WATER **SDG Name:** SI0230

Percent Solids: 0.00 **Lab Sample ID:** SI0230-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7429-90-5	ALUMINUM, TOTAL	28600			P	1	300	15.	100
7440-36-0	ANTIMONY, TOTAL	5.0	U		P	1	8.0	1.3	5.0
7440-38-2	ARSENIC, TOTAL	7.7	J		P	1	8.0	1.4	5.0
7440-39-3	BARIUM, TOTAL	364			P	1	5.0	0.23	3.0
7440-41-7	BERYLLIUM, TOTAL	1.85	J		P	1	5.0	0.10	0.50
7440-43-9	CADMIUM, TOTAL	0.095	J		P	1	5.0	0.049	3.0
7440-70-2	CALCIUM, TOTAL	6780			P	1	100	11.	80
7440-47-3	CHROMIUM, TOTAL	28.2			P	1	10	0.36	4.0
7440-48-4	COBALT, TOTAL	14.2			P	1	10	0.24	4.0
7440-50-8	COPPER, TOTAL	121			P	1	25	0.63	10
7439-89-6	IRON, TOTAL	10100			P	1	100	5.4	80
7439-92-1	LEAD, TOTAL	26.1			P	1	5.0	1.1	4.0
7439-95-4	MAGNESIUM, TOTAL	4730			P	1	100	7.8	80
7439-96-5	MANGANESE, TOTAL	166			P	1	5.0	1.1	4.0
7439-97-6	MERCURY, TOTAL	0.046	J		CV	1	0.20	0.013	0.10
7440-02-0	NICKEL, TOTAL	21.0			P	1	10	0.28	4.0
7440-09-7	POTASSIUM, TOTAL	2920			P	1	1000	41.	500
7782-49-2	SELENIUM, TOTAL	7.0	U		P	1	10	2.4	7.0
7440-22-4	SILVER, TOTAL	4.0	U		P	1	10	0.27	4.0
7440-23-5	SODIUM, TOTAL	27200			P	1	1000	24.	500
7440-28-0	THALLIUM, TOTAL	5.0	U		P	1	15	1.1	5.0
7440-62-2	VANADIUM, TOTAL	27.9			P	1	10	0.23	4.0
7440-66-6	ZINC, TOTAL	56.4			P	1	20	0.72	10

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** IDWGW-F0A37-011315

Matrix: WATER **SDG Name:** SI0230

Percent Solids: 0.00 **Lab Sample ID:** SI0230-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7429-90-5	ALUMINUM, TOTAL	68100			P	1	300	15.	100
7440-36-0	ANTIMONY, TOTAL	5.0	U		P	1	8.0	1.3	5.0
7440-38-2	ARSENIC, TOTAL	23.6			P	1	8.0	1.4	5.0
7440-39-3	BARIUM, TOTAL	236			P	1	5.0	0.23	3.0
7440-41-7	BERYLLIUM, TOTAL	6.25			P	1	5.0	0.10	0.50
7440-43-9	CADMIUM, TOTAL	0.081	J		P	1	5.0	0.049	3.0
7440-70-2	CALCIUM, TOTAL	20700			P	1	100	11.	80
7440-47-3	CHROMIUM, TOTAL	90.6			P	1	10	0.36	4.0
7440-48-4	COBALT, TOTAL	34.4			P	1	10	0.24	4.0
7440-50-8	COPPER, TOTAL	98.1			P	1	25	0.63	10
7439-89-6	IRON, TOTAL	36700			P	1	100	5.4	80
7439-92-1	LEAD, TOTAL	90.0			P	1	5.0	1.1	4.0
7439-95-4	MAGNESIUM, TOTAL	11000			P	1	100	7.8	80
7439-96-5	MANGANESE, TOTAL	548			P	1	5.0	1.1	4.0
7439-97-6	MERCURY, TOTAL	0.064	J		CV	1	0.20	0.013	0.10
7440-02-0	NICKEL, TOTAL	53.3			P	1	10	0.28	4.0
7440-09-7	POTASSIUM, TOTAL	5600			P	1	1000	41.	500
7782-49-2	SELENIUM, TOTAL	7.0	U		P	1	10	2.4	7.0
7440-22-4	SILVER, TOTAL	4.0	U		P	1	10	0.27	4.0
7440-23-5	SODIUM, TOTAL	71900			P	1	1000	24.	500
7440-28-0	THALLIUM, TOTAL	5.0	U		P	1	15	1.1	5.0
7440-62-2	VANADIUM, TOTAL	77.8			P	1	10	0.23	4.0
7440-66-6	ZINC, TOTAL	226			P	1	20	0.72	10

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** IDWGW-EG332-011315

Matrix: WATER **SDG Name:** SI0230

Percent Solids: 0.00 **Lab Sample ID:** SI0230-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7429-90-5	ALUMINUM, TOTAL	10100		N	P	1	300	15.	100
7440-36-0	ANTIMONY, TOTAL	5.0	U	N	P	1	8.0	1.3	5.0
7440-38-2	ARSENIC, TOTAL	2.8	J		P	1	8.0	1.4	5.0
7440-39-3	BARIUM, TOTAL	45.9			P	1	5.0	0.23	3.0
7440-41-7	BERYLLIUM, TOTAL	0.60	J		P	1	5.0	0.10	0.50
7440-43-9	CADMIUM, TOTAL	0.070	J		P	1	5.0	0.049	3.0
7440-70-2	CALCIUM, TOTAL	4500		N	P	1	100	11.	80
7440-47-3	CHROMIUM, TOTAL	13.2			P	1	10	0.36	4.0
7440-48-4	COBALT, TOTAL	5.35	J		P	1	10	0.24	4.0
7440-50-8	COPPER, TOTAL	16.9	J		P	1	25	0.63	10
7439-89-6	IRON, TOTAL	7340		N	P	1	100	5.4	80
7439-92-1	LEAD, TOTAL	14.5			P	1	5.0	1.1	4.0
7439-95-4	MAGNESIUM, TOTAL	2420		N	P	1	100	7.8	80
7439-96-5	MANGANESE, TOTAL	98.6			P	1	5.0	1.1	4.0
7439-97-6	MERCURY, TOTAL	0.014	J		CV	1	0.20	0.013	0.10
7440-02-0	NICKEL, TOTAL	11.6			P	1	10	0.28	4.0
7440-09-7	POTASSIUM, TOTAL	1610			P	1	1000	41.	500
7782-49-2	SELENIUM, TOTAL	7.0	U		P	1	10	2.4	7.0
7440-22-4	SILVER, TOTAL	4.0	U		P	1	10	0.27	4.0
7440-23-5	SODIUM, TOTAL	15800			P	1	1000	24.	500
7440-28-0	THALLIUM, TOTAL	5.0	U		P	1	15	1.1	5.0
7440-62-2	VANADIUM, TOTAL	13.3			P	1	10	0.23	4.0
7440-66-6	ZINC, TOTAL	68.4			P	1	20	0.72	10

Comments:

QC Summary Section

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICV

File: HIA07A Jan 07, 2015 16:56

Analyte	True	Found	%R (1)
MERCURY	6.0	6.16	102.7

SAMPLE: CCV

File: HIA07A Jan 07, 2015 17:02

Analyte	True	Found	%R (1)
MERCURY	5.0	5.14	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCV

File: HIA07A Jan 07, 2015 17:26

Analyte	True	Found	%R (1)
MERCURY	5.0	5.33	106.6

SAMPLE: CCV

File: HIA07A Jan 07, 2015 17:52

Analyte	True	Found	%R (1)
MERCURY	5.0	5.24	104.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICV

File: HIA14A Jan 14, 2015 13:27

Analyte	True	Found	%R (1)
MERCURY	6.0	6.00	100.0

SAMPLE: CCV

File: HIA14A Jan 14, 2015 13:34

Analyte	True	Found	%R (1)
MERCURY	5.0	4.89	97.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCV

File: HIA14A Jan 14, 2015 13:57

Analyte	True	Found	%R (1)
MERCURY	5.0	5.02	100.4

SAMPLE: CCV

File: HIA14A Jan 14, 2015 14:24

Analyte	True	Found	%R (1)
MERCURY	5.0	4.97	99.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCV

File: HIA14A Jan 14, 2015 14:53

Analyte	True	Found	%R (1)
MERCURY	5.0	5.16	103.2

SAMPLE: CCV

File: HIA14A Jan 14, 2015 15:17

Analyte	True	Found	%R (1)
MERCURY	5.0	4.74	94.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCV

File: HIA14A Jan 14, 2015 15:36

Analyte	True	Found	%R (1)
MERCURY	5.0	5.05	101.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICV

File: HIA16A Jan 16, 2015 14:02

Analyte	True	Found	%R (1)
MERCURY	6.0	6.21	103.5

SAMPLE: CCV

File: HIA16A Jan 16, 2015 14:28

Analyte	True	Found	%R (1)
MERCURY	5.0	5.08	101.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICV

File: IIA08A Jan 08, 2015 12:07

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10030.00	100.3
ARSENIC	400.0	400.00	100.0
BARIUM	400.0	409.00	102.3
CADMIUM	400.0	412.00	103.0
CALCIUM	10000.0	10130.00	101.3
CHROMIUM	400.0	412.30	103.1
IRON	10000.0	9926.00	99.3
LEAD	400.0	420.40	105.1
MAGNESIUM	10000.0	10280.00	102.8
SELENIUM	400.0	405.20	101.3
SILVER	400.0	412.80	103.2

SAMPLE: CCV

File: IIA08A Jan 08, 2015 12:53

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11890.00	95.1
ARSENIC	500.0	490.90	98.2
BARIUM	500.0	491.90	98.4
CADMIUM	500.0	493.10	98.6
CALCIUM	12500.0	12320.00	98.6
CHROMIUM	500.0	490.10	98.0
IRON	12500.0	12020.00	96.2
LEAD	500.0	496.60	99.3
MAGNESIUM	12500.0	12730.00	101.8
SELENIUM	500.0	487.80	97.6
SILVER	500.0	492.40	98.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCV

File: IIA08A Jan 08, 2015 13:52

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11940.00	95.5
ARSENIC	500.0	485.70	97.1
BARIUM	500.0	494.00	98.8
CADMIUM	500.0	490.20	98.0
CALCIUM	12500.0	12290.00	98.3
CHROMIUM	500.0	489.10	97.8
IRON	12500.0	12030.00	96.2
LEAD	500.0	502.10	100.4
MAGNESIUM	12500.0	12770.00	102.2
SELENIUM	500.0	486.20	97.2
SILVER	500.0	494.20	98.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICV

File: IIA15A Jan 15, 2015 16:39

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10240.00	102.4
ANTIMONY	400.0	407.10	101.8
BARIUM	400.0	410.00	102.5
BERYLLIUM	400.0	415.00	103.8
CADMIUM	400.0	409.40	102.3
CALCIUM	10000.0	10050.00	100.5
CHROMIUM	400.0	408.40	102.1
COPPER	400.0	405.90	101.5
IRON	10000.0	10070.00	100.7
MAGNESIUM	10000.0	10230.00	102.3
MANGANESE	400.0	409.70	102.4
NICKEL	400.0	414.50	103.6
POTASSIUM	13600.0	13620.00	100.1
SELENIUM	400.0	405.70	101.4
SILVER	400.0	408.40	102.1

SAMPLE: CCV

File: IIA15A Jan 15, 2015 17:23

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12780.00	102.2
ANTIMONY	500.0	503.60	100.7
BARIUM	500.0	506.90	101.4
BERYLLIUM	500.0	512.80	102.6
CADMIUM	500.0	502.70	100.5
CALCIUM	12500.0	12400.00	99.2
CHROMIUM	500.0	506.30	101.3
COPPER	500.0	508.70	101.7
IRON	12500.0	12700.00	101.6
MAGNESIUM	12500.0	12750.00	102.0
MANGANESE	500.0	504.30	100.9
NICKEL	500.0	507.50	101.5
POTASSIUM	12500.0	12500.00	100.0
SELENIUM	500.0	500.70	100.1
SILVER	500.0	508.10	101.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCV

File: IIA15A Jan 15, 2015 18:24

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12430.00	99.4
ANTIMONY	500.0	495.00	99.0
BARIUM	500.0	506.40	101.3
BERYLLIUM	500.0	498.10	99.6
CADMIUM	500.0	525.40	105.1
CALCIUM	12500.0	11720.00	93.8
CHROMIUM	500.0	487.40	97.5
COPPER	500.0	484.00	96.8
IRON	12500.0	12220.00	97.8
MAGNESIUM	12500.0	13120.00	105.0
MANGANESE	500.0	479.40	95.9
NICKEL	500.0	512.20	102.4
POTASSIUM	12500.0	12050.00	96.4
SELENIUM	500.0	519.80	104.0
SILVER	500.0	462.10	92.4

SAMPLE: CCV

File: IIA15A Jan 15, 2015 19:24

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12670.00	101.4
ANTIMONY	500.0	494.90	99.0
BARIUM	500.0	505.90	101.2
BERYLLIUM	500.0	501.40	100.3
CADMIUM	500.0	535.30	107.1
CALCIUM	12500.0	11330.00	90.6
CHROMIUM	500.0	477.90	95.6
COPPER	500.0	478.70	95.7
IRON	12500.0	12200.00	97.6
MAGNESIUM	12500.0	13320.00	106.6
MANGANESE	500.0	468.50	93.7
NICKEL	500.0	513.30	102.7
POTASSIUM	12500.0	12060.00	96.5
SELENIUM	500.0	534.40	106.9
SILVER	500.0	449.10	89.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCV

File: IIA15A Jan 15, 2015 19:44

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12590.00	100.7
ANTIMONY	500.0	493.00	98.6
BARIUM	500.0	505.10	101.0
BERYLLIUM	500.0	497.80	99.6
CADMIUM	500.0	539.30	107.9
CALCIUM	12500.0	11130.00	89.0•
CHROMIUM	500.0	478.80	95.8
COPPER	500.0	477.40	95.5
IRON	12500.0	12130.00	97.0
MAGNESIUM	12500.0	13360.00	106.9
MANGANESE	500.0	464.70	92.9
NICKEL	500.0	514.30	102.9
POTASSIUM	12500.0	11950.00	95.6
SELENIUM	500.0	542.20	108.4
SILVER	500.0	445.00	89.0•

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICV

File: IIA22B Jan 22, 2015 16:59

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10090.00	100.9
ARSENIC	400.0	399.70	99.9
BARIUM	400.0	413.60	103.4
CADMIUM	400.0	409.60	102.4
CALCIUM	10000.0	10180.00	101.8
CHROMIUM	400.0	414.10	103.5
COBALT	400.0	413.80	103.5
IRON	10000.0	10140.00	101.4
LEAD	400.0	418.10	104.5
MAGNESIUM	10000.0	10230.00	102.3
SELENIUM	400.0	411.00	102.8
SILVER	400.0	410.60	102.6
SODIUM	10000.0	10150.00	101.5
THALLIUM	400.0	427.90	107.0
VANADIUM	400.0	413.00	103.3
ZINC	400.0	411.90	103.0

SAMPLE: CCV

File: IIA22B Jan 22, 2015 17:43

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12520.00	100.2
ARSENIC	500.0	500.30	100.1
BARIUM	500.0	507.80	101.6
CADMIUM	500.0	502.50	100.5
CALCIUM	12500.0	12530.00	100.2
CHROMIUM	500.0	509.70	101.9
COBALT	500.0	510.60	102.1
IRON	12500.0	12720.00	101.8
LEAD	500.0	504.00	100.8
MAGNESIUM	12500.0	12700.00	101.6
SELENIUM	500.0	498.40	99.7
SILVER	500.0	503.50	100.7
SODIUM	12500.0	12590.00	100.7
THALLIUM	500.0	518.40	103.7
VANADIUM	500.0	500.20	100.0
ZINC	500.0	504.90	101.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCV

File: IIA22B Jan 22, 2015 18:44

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12470.00	99.8
ARSENIC	500.0	502.10	100.4
BARIUM	500.0	507.60	101.5
CADMIUM	500.0	503.80	100.8
CALCIUM	12500.0	12520.00	100.2
CHROMIUM	500.0	510.90	102.2
COBALT	500.0	513.10	102.6
IRON	12500.0	12700.00	101.6
LEAD	500.0	505.60	101.1
MAGNESIUM	12500.0	12650.00	101.2
SELENIUM	500.0	500.20	100.0
SILVER	500.0	505.20	101.0
SODIUM	12500.0	12600.00	100.8
THALLIUM	500.0	520.50	104.1
VANADIUM	500.0	503.60	100.7
ZINC	500.0	506.60	101.3

SAMPLE: CCV

File: IIA22B Jan 22, 2015 19:45

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12550.00	100.4
ARSENIC	500.0	501.40	100.3
BARIUM	500.0	510.40	102.1
CADMIUM	500.0	503.40	100.7
CALCIUM	12500.0	12510.00	100.1
CHROMIUM	500.0	519.00	103.8
COBALT	500.0	515.60	103.1
IRON	12500.0	12790.00	102.3
LEAD	500.0	504.90	101.0
MAGNESIUM	12500.0	12640.00	101.1
SELENIUM	500.0	504.50	100.9
SILVER	500.0	509.40	101.9
SODIUM	12500.0	12650.00	101.2
THALLIUM	500.0	522.40	104.5
VANADIUM	500.0	511.50	102.3
ZINC	500.0	509.20	101.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCV

File: IIA22B Jan 22, 2015 20:45

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12550.00	100.4
ARSENIC	500.0	485.10	97.0
BARIUM	500.0	506.70	101.3
CADMIUM	500.0	515.00	103.0
CALCIUM	12500.0	12930.00	103.4
CHROMIUM	500.0	486.80	97.4
COBALT	500.0	490.70	98.1
IRON	12500.0	12170.00	97.4
LEAD	500.0	520.20	104.0
MAGNESIUM	12500.0	12800.00	102.4
SELENIUM	500.0	464.50	92.9
SILVER	500.0	508.90	101.8
SODIUM	12500.0	12770.00	102.2
THALLIUM	500.0	488.50	97.7
VANADIUM	500.0	506.30	101.3
ZINC	500.0	486.10	97.2

SAMPLE: CCV

File: IIA22B Jan 22, 2015 21:44

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12590.00	100.7
ARSENIC	500.0	477.90	95.6
BARIUM	500.0	507.10	101.4
CADMIUM	500.0	522.40	104.5
CALCIUM	12500.0	13200.00	105.6
CHROMIUM	500.0	480.30	96.1
COBALT	500.0	482.00	96.4
IRON	12500.0	11960.00	95.7
LEAD	500.0	530.40	106.1
MAGNESIUM	12500.0	12890.00	103.1
SELENIUM	500.0	450.50	90.1
SILVER	500.0	510.50	102.1
SODIUM	12500.0	12750.00	102.0
THALLIUM	500.0	475.70	95.1
VANADIUM	500.0	509.90	102.0
ZINC	500.0	479.50	95.9

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: PQL

File: HIA07A Jan 07, 2015 17:00

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.22	110.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: PQL

File: HIA14A Jan 14, 2015 13:32

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.21	105.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: PQL

File: HIA16A Jan 16, 2015 14:06

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.18	90.0

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: PQL

File: IIA08A Jan 08, 2015 12:19

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	306.00	102.0
ARSENIC	8.0	7.87	98.4
BARIUM	5.0	5.29	105.8
CADMIUM	5.0	4.99	99.8
CALCIUM	100.0	98.65	98.7
CHROMIUM	10.0	10.22	102.2
IRON	100.0	94.42	94.4
LEAD	5.0	5.39	107.8
MAGNESIUM	100.0	106.40	106.4
SELENIUM	10.0	9.32	93.2
SILVER	10.0	10.89	108.9

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: PQL

File: IIA15A Jan 15, 2015 16:51

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	318.60	106.2
ANTIMONY	8.0	8.37	104.6
BARIUM	5.0	5.48	109.6
BERYLLIUM	5.0	5.19	103.8
CADMIUM	5.0	5.14	102.8
CALCIUM	100.0	103.10	103.1
CHROMIUM	10.0	10.28	102.8
COPPER	25.0	26.98	107.9
IRON	100.0	102.50	102.5
MAGNESIUM	100.0	106.70	106.7
MANGANESE	5.0	4.64	92.8
NICKEL	10.0	10.60	106.0
POTASSIUM	1000.0	1037.00	103.7
SELENIUM	10.0	8.54	85.4
SILVER	10.0	10.78	107.8

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: PQL

File: IIA22B Jan 22, 2015 17:11

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	319.20	106.4
ARSENIC	8.0	8.73	109.1
BARIUM	5.0	4.84	96.8
CADMIUM	5.0	4.96	99.2
CALCIUM	100.0	100.70	100.7
CHROMIUM	10.0	10.16	101.6
COBALT	10.0	10.45	104.5
IRON	100.0	101.50	101.5
LEAD	5.0	4.73	94.6
MAGNESIUM	100.0	109.70	109.7
SELENIUM	10.0	10.29	102.9
SILVER	10.0	10.62	106.2
SODIUM	1000.0	1052.00	105.2
THALLIUM	15.0	17.17	114.5
VANADIUM	10.0	9.98	99.8
ZINC	20.0	20.53	102.6

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICB

File: HIA07A Jan 07, 2015 16:58

Analyte	Result	C
MERCURY	0.033	U

SAMPLE: CCB

File: HIA07A Jan 07, 2015 17:04

Analyte	Result	C
MERCURY	0.033	U

SAMPLE: CCB

File: HIA07A Jan 07, 2015 17:28

Analyte	Result	C
MERCURY	0.033	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCB

File: HIA07A Jan 07, 2015 17:54

Analyte	Result	C
MERCURY	0.039	J

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICB

File: HIA14A Jan 14, 2015 13:29

Analyte	Result	C
MERCURY	0.033	U

SAMPLE: CCB

File: HIA14A Jan 14, 2015 13:36

Analyte	Result	C
MERCURY	0.033	U

SAMPLE: CCB

File: HIA14A Jan 14, 2015 13:59

Analyte	Result	C
MERCURY	0.033	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCB
File: HIA14A Jan 14, 2015 14:27

Analyte	Result	C
MERCURY	0.033	U

SAMPLE: CCB
File: HIA14A Jan 14, 2015 14:55

Analyte	Result	C
MERCURY	0.033	U

SAMPLE: CCB
File: HIA14A Jan 14, 2015 15:19

Analyte	Result	C
MERCURY	0.033	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCB

File: HIA14A Jan 14, 2015 15:39

Analyte	Result	C
MERCURY	0.033	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICB

File: HIA16A Jan 16, 2015 14:04

Analyte	Result	C
MERCURY	0.033	U

SAMPLE: CCB

File: HIA16A Jan 16, 2015 14:30

Analyte	Result	C
MERCURY	0.033	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICB

File: IIA08A Jan 08, 2015 12:14

Analyte	Result	C
ALUMINUM	17.000	U
ARSENIC	1.500	U
BARIUM	0.310	U
CADMIUM	0.074	U
CALCIUM	8.700	U
CHROMIUM	0.410	U
IRON	4.000	U
LEAD	1.000	U
MAGNESIUM	7.700	U
SELENIUM	2.600	U
SILVER	0.540	U

SAMPLE: CCB

File: IIA08A Jan 08, 2015 12:58

Analyte	Result	C
ALUMINUM	17.000	U
ARSENIC	2.351	J
BARIUM	0.310	U
CADMIUM	0.125	J
CALCIUM	8.700	U
CHROMIUM	0.410	U
IRON	4.000	U
LEAD	1.000	U
MAGNESIUM	18.940	J
SELENIUM	2.600	U
SILVER	0.540	U

SAMPLE: CCB

File: IIA08A Jan 08, 2015 13:57

Analyte	Result	C
ALUMINUM	17.000	U
ARSENIC	1.500	U
BARIUM	0.310	U
CADMIUM	0.074	U
CALCIUM	8.700	U
CHROMIUM	0.410	U
IRON	4.000	U
LEAD	2.543	J
MAGNESIUM	7.700	U
SELENIUM	2.600	U
SILVER	0.540	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICB
File: IIA15A Jan 15, 2015 16:46

Analyte	Result	C
ALUMINUM	17.000	U
ANTIMONY	1.600	U
BARIUM	0.310	U
BERYLLIUM	0.095	U
CADMIUM	0.074	U
CALCIUM	8.700	U
CHROMIUM	0.410	U
COPPER	0.800	U
IRON	4.000	U
MAGNESIUM	7.700	U
MANGANESE	0.560	U
NICKEL	0.600	U
POTASSIUM	64.000	U
SELENIUM	2.600	U
SILVER	0.540	U

SAMPLE: CCB
File: IIA15A Jan 15, 2015 17:28

Analyte	Result	C
ALUMINUM	17.000	U
ANTIMONY	1.600	U
BARIUM	0.310	U
BERYLLIUM	-0.103	U
CADMIUM	0.110	J
CALCIUM	8.700	U
CHROMIUM	0.410	U
COPPER	0.800	U
IRON	4.000	U
MAGNESIUM	8.256	J
MANGANESE	0.560	U
NICKEL	0.600	U
POTASSIUM	64.000	U
SELENIUM	3.042	J
SILVER	0.540	U

SAMPLE: CCB
File: IIA15A Jan 15, 2015 18:29

Analyte	Result	C
ALUMINUM	17.000	U
ANTIMONY	1.600	U
BARIUM	0.564	J
BERYLLIUM	0.166	J
CADMIUM	0.074	U
CALCIUM	8.700	U
CHROMIUM	0.410	U
COPPER	0.800	U
IRON	4.000	U
MAGNESIUM	7.700	U
MANGANESE	0.560	U
NICKEL	0.600	U
POTASSIUM	64.000	U
SELENIUM	2.600	U
SILVER	0.540	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCB

File: IIA15A Jan 15, 2015 19:29

Analyte	Result	C
ALUMINUM	17.000	U
ANTIMONY	1.600	U
BARIUM	0.601	J
BERYLLIUM	0.185	J
CADMIUM	0.083	J
CALCIUM	8.700	U
CHROMIUM	0.410	U
COPPER	0.800	U
IRON	5.263	J
MAGNESIUM	7.700	U
MANGANESE	0.560	U
NICKEL	0.600	U
POTASSIUM	64.000	U
SELENIUM	2.600	U
SILVER	0.540	U

SAMPLE: CCB

File: IIA15A Jan 15, 2015 19:49

Analyte	Result	C
ALUMINUM	17.000	U
ANTIMONY	1.600	U
BARIUM	0.605	J
BERYLLIUM	0.095	U
CADMIUM	0.178	J
CALCIUM	8.700	U
CHROMIUM	0.410	U
COPPER	0.800	U
IRON	4.258	J
MAGNESIUM	7.700	U
MANGANESE	0.560	U
NICKEL	0.600	U
POTASSIUM	64.000	U
SELENIUM	2.600	U
SILVER	0.540	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICB

File: IIA22B Jan 22, 2015 17:06

Analyte	Result	C
ALUMINUM	17.000	U
ARSENIC	1.500	U
BARIUM	0.310	U
CADMIUM	0.074	U
CALCIUM	-9.463	U
CHROMIUM	0.410	U
COBALT	0.330	U
IRON	4.000	U
LEAD	1.000	U
MAGNESIUM	7.700	U
SELENIUM	2.600	U
SILVER	0.540	U
SODIUM	33.000	U
THALLIUM	1.100	U
VANADIUM	0.410	U
ZINC	0.450	U

SAMPLE: CCB

File: IIA22B Jan 22, 2015 17:48

Analyte	Result	C
ALUMINUM	17.000	U
ARSENIC	3.207	J
BARIUM	0.310	U
CADMIUM	0.074	U
CALCIUM	8.700	U
CHROMIUM	0.410	U
COBALT	0.330	U
IRON	4.984	J
LEAD	1.000	U
MAGNESIUM	8.834	J
SELENIUM	2.600	U
SILVER	0.540	U
SODIUM	33.000	U
THALLIUM	1.100	U
VANADIUM	0.410	U
ZINC	0.450	U

SAMPLE: CCB

File: IIA22B Jan 22, 2015 18:49

Analyte	Result	C
ALUMINUM	17.000	U
ARSENIC	3.078	J
BARIUM	0.310	U
CADMIUM	0.120	J
CALCIUM	8.700	U
CHROMIUM	0.410	U
COBALT	0.330	U
IRON	4.000	U
LEAD	1.000	U
MAGNESIUM	7.700	U
SELENIUM	3.439	J
SILVER	0.540	U
SODIUM	33.000	U
THALLIUM	1.100	U
VANADIUM	0.410	U
ZINC	0.450	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: CCB

File: IIA22B Jan 22, 2015 19:50

Analyte	Result	C
ALUMINUM	17.000	U
ARSENIC	1.500	U
BARIUM	0.310	U
CADMIUM	0.074	J
CALCIUM	8.977	J
CHROMIUM	0.410	U
COBALT	0.330	U
IRON	7.086	J
LEAD	1.000	U
MAGNESIUM	8.093	J
SELENIUM	2.600	U
SILVER	0.540	U
SODIUM	35.160	J
THALLIUM	1.368	J
VANADIUM	0.410	U
ZINC	0.450	U

SAMPLE: CCB

File: IIA22B Jan 22, 2015 20:50

Analyte	Result	C
ALUMINUM	17.000	U
ARSENIC	1.899	J
BARIUM	0.315	J
CADMIUM	0.148	J
CALCIUM	13.160	J
CHROMIUM	0.410	U
COBALT	0.330	U
IRON	4.000	U
LEAD	1.000	U
MAGNESIUM	7.700	U
SELENIUM	2.600	U
SILVER	0.540	U
SODIUM	39.770	J
THALLIUM	2.189	J
VANADIUM	0.410	U
ZINC	0.450	U

SAMPLE: CCB

File: IIA22B Jan 22, 2015 21:49

Analyte	Result	C
ALUMINUM	17.000	U
ARSENIC	1.854	J
BARIUM	0.446	J
CADMIUM	0.113	J
CALCIUM	9.689	J
CHROMIUM	0.410	U
COBALT	0.330	U
IRON	9.250	J
LEAD	1.000	U
MAGNESIUM	7.700	U
SELENIUM	3.368	J
SILVER	0.540	U
SODIUM	96.860	J
THALLIUM	1.100	U
VANADIUM	0.410	U
ZINC	0.450	U

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBT1222A

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA07ICW2

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	25	U
BARIUM	70.4	B
CADMIUM	15	U
CHROMIUM	20	U
LEAD	6.2	J
MERCURY	0.10	U
SELENIUM	35	U
SILVER	1.9	J

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIA07HGW1

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA07HGW1

Concentration Units : ug/L

Analyte	RESULT	C
MERCURY	0.10	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIA07ICW2

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA07ICW2

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	5.0	U
BARIUM	3.0	U
CADMIUM	3.0	U
CHROMIUM	4.0	U
LEAD	4.0	U
SELENIUM	7.0	U
SILVER	4.0	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIA14HGW2

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA14HGW2

Concentration Units : ug/L

Analyte	RESULT	C
MERCURY	0.10	U

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIA14ICW2

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA14ICW2

Concentration Units : ug/L

Analyte	RESULT	C
ALUMINUM	100	U
ANTIMONY	5.0	U
ARSENIC	5.0	U
BARIUM	0.27	J
BERYLLIUM	0.50	U
CADMIUM	3.0	U
CALCIUM	80	U
CHROMIUM	4.0	U
COBALT	4.0	U
COPPER	10	U
IRON	80	U
LEAD	4.0	U
MAGNESIUM	80	U
MANGANESE	4.0	U
NICKEL	4.0	U
POTASSIUM	500	U
SELENIUM	7.0	U
SILVER	4.0	U
SODIUM	88	J
THALLIUM	5.0	U
VANADIUM	4.0	U
ZINC	1.4	J

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIA16HGW1

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA16HGW1

Concentration Units : ug/L

Analyte	RESULT	C
MERCURY	0.10	U

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIA16ICW1

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA16ICW1

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	5.0	U
BARIUM	0.76	J
CADMIUM	3.0	U
CHROMIUM	4.0	U
LEAD	4.0	U
SELENIUM	7.0	U
SILVER	4.0	U

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICSA

File: IIA08A Jan 08, 2015 12:41

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	477100	95.4
ARSENIC	0	4	
BARIUM	0	0	
CADMIUM	0	2	
CALCIUM	500000	448100	89.6
CHROMIUM	0	0	
IRON	200000	175600	87.8
LEAD	0	0	
MAGNESIUM	500000	458300	91.7
SELENIUM	0	5	
SILVER	0	1	

SAMPLE: ICSAB

File: IIA08A Jan 08, 2015 12:46

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	481800	96.4
ARSENIC	100	109	109.0
BARIUM	500	523	104.6
CADMIUM	1000	963	96.3
CALCIUM	500000	464200	92.8
CHROMIUM	500	495	99.0
IRON	200000	177100	88.5
LEAD	50	47	94.0
MAGNESIUM	500000	464300	92.9
SELENIUM	50	53	106.0
SILVER	200	223	111.5

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICSA

File: IIA15A Jan 15, 2015 17:12

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	514100	102.8
ANTIMONY	0	3	
BARIUM	0	0	
BERYLLIUM	0	0	
CADMIUM	0	-1	
CALCIUM	500000	457900	91.6
CHROMIUM	0	0	
COPPER	0	-3	
IRON	200000	183800	91.9
MAGNESIUM	500000	461800	92.4
MANGANESE	0	-1	
NICKEL	0	1	
POTASSIUM	0	260	
SELENIUM	0	6	
SILVER	0	3	

SAMPLE: ICSAB

File: IIA15A Jan 15, 2015 17:17

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	514500	102.9
ANTIMONY	600	630	105.0
BARIUM	500	531	106.2
BERYLLIUM	500	525	105.0
CADMIUM	1000	960	96.0
CALCIUM	500000	456200	91.2
CHROMIUM	500	496	99.2
COPPER	500	533	106.6
IRON	200000	184800	92.4
MAGNESIUM	500000	460300	92.1
MANGANESE	500	497	99.4
NICKEL	1000	940	94.0
POTASSIUM	20000	22050	110.3
SELENIUM	50	56	112.0
SILVER	200	226	113.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Concentration Units: ug/L

SAMPLE: ICSA

File: IIA22B Jan 22, 2015 17:32

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	493300	98.7
ARSENIC	0	3	
BARIUM	0	0	
CADMIUM	0	-2	
CALCIUM	500000	455100	91.0
CHROMIUM	0	-2	
COBALT	0	0	
IRON	200000	181100	90.5
LEAD	0	-2	
MAGNESIUM	500000	456000	91.2
SELENIUM	0	4	
SILVER	0	4	
SODIUM	0	86	
THALLIUM	0	0	
VANADIUM	0	-1	
ZINC	0	1	

SAMPLE: ICSAB

File: IIA22B Jan 22, 2015 17:36

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	504600	100.9
ARSENIC	100	102	102.0
BARIUM	500	532	106.4
CADMIUM	1000	960	96.0
CALCIUM	500000	460900	92.2
CHROMIUM	500	511	102.2
COBALT	500	484	96.8
IRON	200000	185600	92.8
LEAD	50	44	88.0
MAGNESIUM	500000	464800	93.0
SELENIUM	50	52	104.0
SILVER	200	227	113.5
SODIUM	20000	21820	109.1
THALLIUM	100	100	100.0
VANADIUM	500	512	102.4
ZINC	1000	963	96.3

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** IDWGW-EG332-011315S

Matrix: WATER **SDG Name:** SI0230

Percent Solids: 0.00 **Lab Sample ID:** SI0230-004P

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	27600		10100		2000	877.5	N	80	120	P
ANTIMONY, TOTAL	48.7		5.0	U	100	48.7	N	80	120	P
ARSENIC, TOTAL	101		2.8	J	100	98.6		80	120	P
BARIUM, TOTAL	2180		45.9		2000	106.5		80	120	P
BERYLLIUM, TOTAL	54.5		0.60	J	50	107.9		80	120	P
CADMIUM, TOTAL	263		0.070	J	250	105.1		80	120	P
CALCIUM, TOTAL	7580		4500		2500	123.3	N	80	120	P
CHROMIUM, TOTAL	224		13.2		200	105.5		80	120	P
COBALT, TOTAL	530		5.35	J	500	104.8		80	120	P
COPPER, TOTAL	271		16.9	J	250	101.5		80	120	P
IRON, TOTAL	11400		7340		1000	410.0	N	80	120	P
LEAD, TOTAL	120		14.5		100	105.8		80	120	P
MAGNESIUM, TOTAL	8380		2420		5000	119.2		80	120	P
MANGANESE, TOTAL	596		98.6		500	99.4		80	120	P
NICKEL, TOTAL	550		11.6		500	107.7		80	120	P
POTASSIUM, TOTAL	11200		1610		10000	95.4		80	120	P
SELENIUM, TOTAL	106		7.0	U	100	106.4		80	120	P
SILVER, TOTAL	52.6		4.0	U	50	105.2		80	120	P
SODIUM, TOTAL	23000		15800		7500	96.7		80	120	P
THALLIUM, TOTAL	104		5.0	U	100	104.0		80	120	P
VANADIUM, TOTAL	560		13.3		500	109.2		80	120	P
ZINC, TOTAL	573		68.4		500	101.0		80	120	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** IDWGW-EG332-011315S

Matrix: WATER **SDG Name:** SI0230

Percent Solids: 0.00 **Lab Sample ID:** SI0230-004S

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	30900		10100		2000	1040.5	N	80	120	P
ANTIMONY, TOTAL	57.7		5.0	U	100	57.7	N	80	120	P
ARSENIC, TOTAL	99.5		2.8	J	100	96.7		80	120	P
BARIUM, TOTAL	2160		45.9		2000	105.7		80	120	P
BERYLLIUM, TOTAL	54.0		0.60	J	50	106.9		80	120	P
CADMIUM, TOTAL	261		0.070	J	250	104.3		80	120	P
CALCIUM, TOTAL	7660		4500		2500	126.3	N	80	120	P
CHROMIUM, TOTAL	223		13.2		200	105.1		80	120	P
COBALT, TOTAL	524		5.35	J	500	103.7		80	120	P
COPPER, TOTAL	267		16.9	J	250	100.1		80	120	P
IRON, TOTAL	12000		7340		1000	466.0	N	80	120	P
LEAD, TOTAL	121		14.5		100	106.3		80	120	P
MAGNESIUM, TOTAL	8550		2420		5000	122.6	N	80	120	P
MANGANESE, TOTAL	596		98.6		500	99.5		80	120	P
NICKEL, TOTAL	546		11.6		500	107.0		80	120	P
POTASSIUM, TOTAL	11300		1610		10000	96.8		80	120	P
SELENIUM, TOTAL	108		7.0	U	100	107.8		80	120	P
SILVER, TOTAL	51.6		4.0	U	50	103.3		80	120	P
SODIUM, TOTAL	23400		15800		7500	101.2		80	120	P
THALLIUM, TOTAL	102		5.0	U	100	102.0		80	120	P
VANADIUM, TOTAL	553		13.3		500	108.0		80	120	P
ZINC, TOTAL	567		68.4		500	99.7		80	120	P

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** IDWGW-EG332-011315S

Matrix: WATER **SDG Name:** SI0230

Percent Solids: 0.00 **Lab Sample ID:** SI0230-004A

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	20000		10100		10500	94.0		75	125	P
ANTIMONY, TOTAL	462		1.3	U	500	92.4		75	125	P
ARSENIC, TOTAL	462		2.8	J	500	91.8		75	125	P
BARIUM, TOTAL	530		45.9		500	96.9		75	125	P
BERYLLIUM, TOTAL	482		0.60	J	500	96.2		75	125	P
CADMIUM, TOTAL	507		0.070	J	500	101.3		75	125	P
CALCIUM, TOTAL	9180		4500		5500	85.1		75	125	P
CHROMIUM, TOTAL	471		13.2		500	91.5		75	125	P
COBALT, TOTAL	479		5.35	J	500	94.8		75	125	P
COPPER, TOTAL	471		16.9	J	500	90.8		75	125	P
IRON, TOTAL	12300		7340		5500	90.2		75	125	P
LEAD, TOTAL	498		14.5		500	96.7		75	125	P
MAGNESIUM, TOTAL	7970		2420		5500	100.9		75	125	P
MANGANESE, TOTAL	538		98.6		500	87.8		75	125	P
NICKEL, TOTAL	501		11.6		500	97.8		75	125	P
POTASSIUM, TOTAL	10700		1610		10000	91.1		75	125	P
SELENIUM, TOTAL	505		2.4	U	500	101.1		75	125	P
SILVER, TOTAL	420		0.27	U	500	83.9		75	125	P
SODIUM, TOTAL	21000		15800		5500	95.1		75	125	P
THALLIUM, TOTAL	479		1.1	U	500	95.7		75	125	P
VANADIUM, TOTAL	502		13.3		500	97.8		75	125	P
ZINC, TOTAL	525		68.4		500	91.3		75	125	P

Comments:

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** IDWGW-EG332-011315

Matrix: WATER **SDG Name:** SI0230

Percent Solids: 0.00 **Lab Sample ID:** SI0230-004

Concentration Units : ug/L

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
ALUMINUM, TOTAL		30900		27600		11.1		P
ANTIMONY, TOTAL		57.7		48.7		17.0		P
ARSENIC, TOTAL		99.5		101		1.9		P
BARIUM, TOTAL		2160		2180		0.7		P
BERYLLIUM, TOTAL		54.0		54.5		0.9		P
CADMIUM, TOTAL		261		263		0.8		P
CALCIUM, TOTAL		7660		7580		1.0		P
CHROMIUM, TOTAL		223		224		0.4		P
COBALT, TOTAL		524		530		1.1		P
COPPER, TOTAL		267		271		1.3		P
IRON, TOTAL		12000		11400		4.8		P
LEAD, TOTAL		121		120		0.4		P
MAGNESIUM, TOTAL		8550		8380		2.0		P
MANGANESE, TOTAL		596		596		0.1		P
NICKEL, TOTAL		546		550		0.6		P
POTASSIUM, TOTAL		11300		11200		1.2		P
SELENIUM, TOTAL		108		106		1.3		P
SILVER, TOTAL		51.6		52.6		1.9		P
SODIUM, TOTAL		23400		23000		1.5		P
THALLIUM, TOTAL		102		104		1.9		P
VANADIUM, TOTAL		553		560		1.1		P
ZINC, TOTAL		567		573		1.1		P

Comments:

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIA07HGW1

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA07HGW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.00	5.06	101.0	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIA07ICW2

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA07ICW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100	96.4	96.4	80	120
BARIUM	2000	2040	102.0	80	120
CADMIUM	250	246	98.5	80	120
CHROMIUM	200	204	101.8	80	120
LEAD	100	101	100.8	80	120
SELENIUM	100	100	100.2	80	120
SILVER	50.0	51.4	102.7	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIA14HGW2

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA14HGW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.00	4.79	95.8	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIA14ICW2

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA14ICW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ALUMINUM	2000	2210	110.3	80	120
ANTIMONY	100	100	100.4	80	120
ARSENIC	100	101	101.0	80	120
BARIUM	2000	2170	108.5	80	120
BERYLLIUM	50.0	53.9	107.8	80	120
CADMIUM	250	266	106.3	80	120
CALCIUM	2500	2390	95.4	80	120
CHROMIUM	200	212	106.1	80	120
COBALT	500	556	111.2	80	120
COPPER	250	262	104.7	80	120
IRON	1000	1060	105.7	80	120
LEAD	100	102	101.8	80	120
MAGNESIUM	5000	5230	104.6	80	120
MANGANESE	500	516	103.1	80	120
NICKEL	500	555	111.0	80	120
POTASSIUM	10000	9740	97.4	80	120
SELENIUM	100	108	108.1	80	120
SILVER	50.0	49.3	98.7	80	120
SODIUM	7500	7840	104.5	80	120
THALLIUM	100	114	113.9	80	120
VANADIUM	500	548	109.5	80	120
ZINC	500	550	109.9	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIA16HGW1

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA16HGW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.00	4.99	99.8	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIA16ICW1

Matrix: WATER **SDG Name:** SI0230

QC Batch ID: IA16ICW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100	97.1	97.1	80	120
BARIUM	2000	2150	107.4	80	120
CADMIUM	250	260	103.8	80	120
CHROMIUM	200	211	105.6	80	120
LEAD	100	106	105.8	80	120
SELENIUM	100	95.7	95.7	80	120
SILVER	50.0	52.7	105.3	80	120

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services **Client Field ID:** IDWGW-EG332-011315L

Matrix: WATER **SDG Name:** SI0230

Lab Sample ID: SI0230-004L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ALUMINUM, TOTAL	10100		10200		1.0		P
ANTIMONY, TOTAL	1.3	U	8.1	J			P
ARSENIC, TOTAL	2.8	J	7.0	U	100.0		P
BARIUM, TOTAL	45.9		47.7		3.9		P
BERYLLIUM, TOTAL	0.60	J	0.50	U	100.0		P
CADMIUM, TOTAL	0.070	J	0.25	U	100.0		P
CALCIUM, TOTAL	4500		4520		0.4		P
CHROMIUM, TOTAL	13.2		13	J	1.5		P
COBALT, TOTAL	5.35	J	4.8	J	10.3		P
COPPER, TOTAL	16.9	J	16	J	5.3		P
IRON, TOTAL	7340		7370		0.4		P
LEAD, TOTAL	14.5		12	J	17.2		P
MAGNESIUM, TOTAL	2420		2540		5.0		P
MANGANESE, TOTAL	98.6		102		3.4		P
NICKEL, TOTAL	11.6		10	J	13.8		P
POTASSIUM, TOTAL	1610		1500	J	6.8		P
SELENIUM, TOTAL	2.4	U	12.	U			P
SILVER, TOTAL	0.27	U	1.4	U			P
SODIUM, TOTAL	15800		16300		3.2		P
THALLIUM, TOTAL	1.1	U	6.1	J			P
VANADIUM, TOTAL	13.3		12.7	J	4.5		P
ZINC, TOTAL	68.4		60.1	J	12.1		P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 1/30/2013

Concentration Units: ug/L

Analyte	CRDL	IDL	M
MERCURY	0.20	0.033	CV

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 5/21/2012

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	17.	P
ANTIMONY	8.0	1.6	P
ARSENIC	8.0	1.5	P
BARIUM	5.0	0.31	P
BERYLLIUM	5.0	0.095	P
CADMIUM	5.0	0.074	P
CALCIUM	100	8.7	P
CHROMIUM	10	0.41	P
COBALT	10	0.33	P
COPPER	25	0.80	P
IRON	100	4.0	P
LEAD	5.0	1.0	P
MAGNESIUM	100	7.7	P
MANGANESE	5.0	0.56	P
NICKEL	10	0.60	P
POTASSIUM	1000	64.	P
SELENIUM	10	2.6	P
SILVER	10	0.54	P
SODIUM	1000	33.	P
THALLIUM	15	1.1	P
VANADIUM	10	0.41	P
ZINC	20	0.45	P

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 2/9/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
MERCURY	0.10	ug/L	CV	SW846 7470A / SW846 7470A

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/19/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ALUMINUM	100.	ug/L	P	SW846 3010A / SW846 6010C
ANTIMONY	5.0	ug/L	P	SW846 3010A / SW846 6010C
ARSENIC	5.0	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	3.0	ug/L	P	SW846 3010A / SW846 6010C
BERYLLIUM	0.50	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	3.0	ug/L	P	SW846 3010A / SW846 6010C
CALCIUM	80.	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	4.0	ug/L	P	SW846 3010A / SW846 6010C
COBALT	4.0	ug/L	P	SW846 3010A / SW846 6010C
COPPER	10.	ug/L	P	SW846 3010A / SW846 6010C
IRON	80.	ug/L	P	SW846 3010A / SW846 6010C
LEAD	4.0	ug/L	P	SW846 3010A / SW846 6010C
MAGNESIUM	80.	ug/L	P	SW846 3010A / SW846 6010C
MANGANESE	4.0	ug/L	P	SW846 3010A / SW846 6010C
NICKEL	4.0	ug/L	P	SW846 3010A / SW846 6010C
POTASSIUM	500.	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	7.0	ug/L	P	SW846 3010A / SW846 6010C
SILVER	4.0	ug/L	P	SW846 3010A / SW846 6010C
SODIUM	500.	ug/L	P	SW846 3010A / SW846 6010C
THALLIUM	5.0	ug/L	P	SW846 3010A / SW846 6010C
VANADIUM	4.0	ug/L	P	SW846 3010A / SW846 6010C
ZINC	10.	ug/L	P	SW846 3010A / SW846 6010C

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 2/9/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
MERCURY	0.013	ug/L	CV	SW846 7470A / SW846 7470A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/19/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ALUMINUM	15.	ug/L	P	SW846 3010A / SW846 6010C
ANTIMONY	1.3	ug/L	P	SW846 3010A / SW846 6010C
ARSENIC	1.4	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	0.23	ug/L	P	SW846 3010A / SW846 6010C
BERYLLIUM	0.10	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	0.049	ug/L	P	SW846 3010A / SW846 6010C
CALCIUM	11.	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	0.36	ug/L	P	SW846 3010A / SW846 6010C
COBALT	0.24	ug/L	P	SW846 3010A / SW846 6010C
COPPER	0.63	ug/L	P	SW846 3010A / SW846 6010C
IRON	5.4	ug/L	P	SW846 3010A / SW846 6010C
LEAD	1.1	ug/L	P	SW846 3010A / SW846 6010C
MAGNESIUM	7.8	ug/L	P	SW846 3010A / SW846 6010C
MANGANESE	1.1	ug/L	P	SW846 3010A / SW846 6010C
NICKEL	0.28	ug/L	P	SW846 3010A / SW846 6010C
POTASSIUM	41.	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	2.4	ug/L	P	SW846 3010A / SW846 6010C
SILVER	0.27	ug/L	P	SW846 3010A / SW846 6010C
SODIUM	24.	ug/L	P	SW846 3010A / SW846 6010C
THALLIUM	1.1	ug/L	P	SW846 3010A / SW846 6010C
VANADIUM	0.23	ug/L	P	SW846 3010A / SW846 6010C
ZINC	0.72	ug/L	P	SW846 3010A / SW846 6010C

ICP INTERELEMENT CORRECTION FACTORS

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument Name: THERMO ICAP 6500 **Instrument ID:** I **Date:** 1/8/2015

Analyte	Wavelength (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As	Cr	Co	Cu	Mn	Mo	Ni	Ti	V
ALUMINUM	396.15	0.0	0.0003680	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0300000	0.0	0.0	0.0
ANTIMONY	206.83	0.0000250	0.0	0.0000520	0.0	-0.0001350	0.0078600	0.0	0.0	0.0	-0.0018800	-0.0009470	0.0	-0.0017400
ARSENIC	189.04	0.0000120	0.0	-0.0001310	0.0	0.0	0.0006100	0.0	0.0	0.0	0.0020700	0.0	0.0	0.0
BARIUM	455.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	313.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0007160	0.0000820
BORON	208.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0296000	0.0	0.0	0.0
CADMIUM	226.50	0.0	0.0	0.0000630	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0000800	0.0000260	0.0
CALCIUM	315.89	0.0	0.0	0.0	0.0	0.0	0.0008850	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	267.72	0.0	0.0	0.0000070	0.0	0.0	0.0	0.0	0.0	0.0001110	0.0	0.0	0.0	0.0000720
COBALT	228.62	0.0	0.0	0.0	0.0	0.0	-0.0000420	0.0	0.0	0.0	0.0	0.0000640	0.0027000	0.0
COPPER	327.40	0.0000110	0.0	-0.0000060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0005550	0.0003110
GOLD	242.79	0.0	0.0	0.0001410	0.0	0.0	0.0	0.0	0.0	-0.0019000	0.0	0.0	0.0	0.0
IRON	259.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	220.35	-0.0001240	0.0	0.0000190	0.0	0.0	-0.0005800	0.0000540	0.0001360	0.0	-0.0005810	0.0002080	0.0000970	0.0
LITHIUM	670.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	202.58	0.0	0.0	0.0000370	0.0	0.0	0.0	0.2003000	0.0	0.0	0.0277000	0.0	0.0002000	0.0
MANGANESE	257.61	-0.0000010	0.0	0.0000150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	202.03	0.0	0.0	0.0	0.0	0.0	0.0001080	0.0	0.0	0.0000070	0.0	0.0	0.0	-0.0001920
NICKEL	231.60	0.0	0.0	-0.0000380	0.0	0.0	0.0	0.0001270	0.0	0.0	0.0008690	0.0	0.0	0.0
POTASSIUM	766.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	196.09	0.0000230	0.0	-0.0000020	0.0	-0.0000500	0.0	0.0000900	0.0	0.0004850	0.0	0.0	0.0	-0.0002080
SILICON	251.61	0.0	0.0	-0.0000080	0.0	0.0	0.0	0.0	0.0	0.0	0.0097100	0.0	0.0009940	0.0
SILVER	328.07	0.0	0.0	-0.0002370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0002840	0.0
SODIUM	589.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	421.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	190.86	-0.0000020	0.0	0.0000020	0.0	0.0	0.0	0.0018400	0.0000120	-0.0021900	-0.0000380	0.0	-0.0010500	-0.0093600
TIN	189.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	334.90	0.0	0.0	0.0	0.0	0.0	0.0001290	0.0	0.0	0.0	0.0010500	0.0	0.0	0.0
VANADIUM	292.40	0.0	0.0	0.0000210	0.0	0.0	-0.0041100	0.0	0.0	-0.0003220	-0.0062800	0.0	0.0010900	0.0
ZINC	206.20	0.0	0.0	0.0	0.0	0.0	-0.0011400	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FORM XI - IN

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 10/28/2014

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	5.00	500000	P
ANTIMONY	45.00	20000	P
ARSENIC	45.00	20000	P
BARIUM	5.00	20000	P
BERYLLIUM	5.00	20000	P
CADMIUM	45.00	20000	P
CALCIUM	5.00	500000	P
CHROMIUM	10.00	20000	P
COBALT	45.00	20000	P
COPPER	10.00	20000	P
IRON	5.00	250000	P
LEAD	45.00	20000	P
MAGNESIUM	45.00	200000	P
MANGANESE	5.00	20000	P
NICKEL	10.00	20000	P
POTASSIUM	5.00	300000	P
SELENIUM	45.00	20000	P
SILVER	10.00	2000	P
SODIUM	5.00	200000	P
THALLIUM	45.00	20000	P
VANADIUM	10.00	20000	P
ZINC	45.00	20000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IA07HGW1

Matrix: WATER **SDG Name:** SI0230

Method: CV **Prep Date:** 01/07/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIA07HGW1	LCSWIA07HGW1	0.025	0.025	
PBT1222A	PBT1222A	0.025	0.025	
PBWIA07HGW1	PBWIA07HGW1	0.025	0.025	

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IA07ICW2

Matrix: WATER **SDG Name:** SI0230

Method: P **Prep Date:** 01/07/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIA07ICW2	LCSWIA07ICW2	0.05	0.05	
PBT1222A	PBT1222A	0.01	0.05	
PBWIA07ICW2	PBWIA07ICW2	0.05	0.05	

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IA14HGW2

Matrix: WATER **SDG Name:** SI0230

Method: CV **Prep Date:** 01/14/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIA14HGW2	LCSWIA14HGW2	0.025	0.025	
PBWIA14HGW2	PBWIA14HGW2	0.025	0.025	
IDWGW-3178-011315	SI0230-002	0.025	0.025	D
IDWGW-F0A37-011315	SI0230-003	0.025	0.025	D
IDWGW-EG332-011315	SI0230-004	0.025	0.025	D

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IA14ICW2

Matrix: WATER **SDG Name:** SI0230

Method: P **Prep Date:** 01/14/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIA14ICW2	LCSWIA14ICW2	0.05	0.05	
PBWIA14ICW2	PBWIA14ICW2	0.05	0.05	
IDWGW-3178-011315	SI0230-002	0.05	0.05	D
IDWGW-F0A37-011315	SI0230-003	0.05	0.05	D
IDWGW-EG332-011315	SI0230-004	0.05	0.05	D
IDWGW-EG332-011315P	SI0230-004P	0.05	0.05	D
IDWGW-EG332-011315S	SI0230-004S	0.05	0.05	D

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IA16HGW1

Matrix: WATER **SDG Name:** SI0230

Method: CV **Prep Date:** 01/16/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIA16HGW1	LCSWIA16HGW1	0.025	0.025	
PBWIA16HGW1	PBWIA16HGW1	0.025	0.025	
IDWS-0312-011315	SI0230-001T	0.025	0.025	F

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IA16ICW1

Matrix: WATER **SDG Name:** SI0230

Method: P **Prep Date:** 01/16/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIA16ICW1	LCSWIA16ICW1	0.05	0.05	
PBWIA16ICW1	PBWIA16ICW1	0.05	0.05	
IDWS-0312-011315	SI0230-001T	0.01	0.05	F

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: CETAC M6100 **File Name:** HIA07A

Date: 1/7/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	16:43	Hg
Standard #1 (0.2 ppb		1	16:45	Hg
Standard #2 (0.5 ppb		1	16:48	Hg
Standard #3 (1.0 ppb		1	16:50	Hg
Standard #4 (5.0 ppb		1	16:52	Hg
Standard #5 (10.0 pp		1	16:54	Hg
ICV		1	16:56	HG
ICB		1	16:58	HG
PQL		1	17:00	HG
CCV		1	17:02	HG
CCB		1	17:04	HG
LCSWIA07HGW1		1	17:07	HG
PBWIA07HGW1		1	17:09	HG
ZZZZZZ		1	17:11	
ZZZZZZ		1	17:13	
ZZZZZZ		1	17:15	
ZZZZZZ		1	17:18	
ZZZZZZ		1	17:20	
ZZZZZZ		1	17:22	
ZZZZZZ		1	17:24	
CCV		1	17:26	HG
CCB		1	17:28	HG
ZZZZZZ		1	17:30	
ZZZZZZ		1	17:32	
ZZZZZZ		5	17:35	
ZZZZZZ		1	17:37	
ZZZZZZ		1	17:39	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: CETAC M6100 **File Name:** HIA07A

Date: 1/7/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	17:41	
ZZZZZZ		1	17:43	
ZZZZZZ		1	17:45	
PBT1222A		1	17:47	HG
ZZZZZZ		1	17:49	
CCV		1	17:52	HG
CCB		1	17:54	HG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: CETAC M6100 **File Name:** HIA14A

Date: 1/14/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	13:15	Hg
Standard #1 (0.2 ppb		1	13:17	Hg
Standard #2 (0.5 ppb		1	13:19	Hg
Standard #3 (1.0 ppb		1	13:21	Hg
Standard #4 (5.0 ppb		1	13:23	Hg
Standard #5 (10.0 pp		1	13:25	Hg
ICV		1	13:27	HG
ICB		1	13:29	HG
PQL		1	13:32	HG
CCV		1	13:34	HG
CCB		1	13:36	HG
ZZZZZZ		1	13:38	
ZZZZZZ		1	13:40	
ZZZZZZ		1	13:42	
ZZZZZZ		1	13:44	
ZZZZZZ		1	13:46	
ZZZZZZ		1	13:48	
ZZZZZZ		1	13:51	
ZZZZZZ		1	13:53	
ZZZZZZ		1	13:55	
CCV		1	13:57	HG
CCB		1	13:59	HG
ZZZZZZ		1	14:01	
ZZZZZZ		1	14:03	
ZZZZZZ		1	14:05	
ZZZZZZ		1	14:10	
ZZZZZZ		1	14:12	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: CETAC M6100 **File Name:** HIA14A

Date: 1/14/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	14:14	
ZZZZZZ		5	14:16	
ZZZZZZ		1	14:18	
ZZZZZZ		1	14:20	
ZZZZZZ		1	14:22	
CCV		1	14:24	HG
CCB		1	14:27	HG
ZZZZZZ		1	14:29	
ZZZZZZ		1	14:31	
ZZZZZZ		1	14:34	
ZZZZZZ		1	14:36	
ZZZZZZ		1	14:38	
ZZZZZZ		1	14:41	
ZZZZZZ		1	14:44	
ZZZZZZ		1	14:46	
ZZZZZZ		1	14:49	
ZZZZZZ		1	14:51	
CCV		1	14:53	HG
CCB		1	14:55	HG
ZZZZZZ		1	14:57	
ZZZZZZ		1	14:59	
LCSWIA14HGW2		1	15:01	HG
PBWIA14HGW2		1	15:03	HG
ZZZZZZ		1	15:06	
ZZZZZZ		5	15:09	
ZZZZZZ		1	15:11	
ZZZZZZ		1	15:13	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: CETAC M6100 **File Name:** HIA14A

Date: 1/14/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	15:15	
CCV		1	15:17	HG
CCB		1	15:19	HG
SI0230-002	IDWGW-3178-011315	1	15:21	HG
SI0230-003	IDWGW-F0A37-011315	1	15:24	HG
SI0230-004	IDWGW-EG332-011315	1	15:26	HG
ZZZZZZ		1	15:28	
ZZZZZZ		1	15:30	
ZZZZZZ		5	15:32	
ZZZZZZ		5	15:34	
CCV		1	15:36	HG
CCB		1	15:39	HG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: CETAC M6100 **File Name:** HIA16A

Date: 1/16/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	13:50	Hg
Standard #1 (0.2 ppb		1	13:52	Hg
Standard #2 (0.5 ppb		1	13:54	Hg
Standard #3 (1.0 ppb		1	13:56	Hg
Standard #4 (5.0 ppb		1	13:58	Hg
Standard #5 (10.0 pp		1	14:00	Hg
ICV		1	14:02	HG
ICB		1	14:04	HG
PQL		1	14:06	HG
LCSWIA16HGW1		1	14:09	HG
PBWIA16HGW1		1	14:11	HG
ZZZZZZ		1	14:13	
ZZZZZZ		1	14:15	
ZZZZZZ		1	14:17	
ZZZZZZ		1	14:19	
ZZZZZZ		1	14:21	
ZZZZZZ		1	14:23	
SI0230-001T	IDWS-0312-011315T	1	14:25	HG
CCV		1	14:28	HG
CCB		1	14:30	HG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: THERMO ICAP 6500 **File Name:** IIA08A

Date: 1/8/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements											
Blank		1	11:57	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
Std 1		1	12:02	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
ICV		1	12:07	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
ICB		1	12:14	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
PQL		1	12:19	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
ZZZZZZ		1	12:27												
ZZZZZZ		1	12:32												
ICSA		1	12:41	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
ICSAB		1	12:46	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
CCV		1	12:53	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
CCB		1	12:58	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
ZZZZZZ		1	13:03												
PBWIA07ICW2		1	13:08		AS	BA	CD		CR		PB		SE	AG	
LCSWIA07ICW2		1	13:13		AS	BA	CD		CR		PB		SE	AG	
PBT1222A		1	13:18		AS	BA	CD		CR		PB		SE	AG	
ZZZZZZ		1	13:23												
ZZZZZZ		1	13:28												
ZZZZZZ		1	13:33												
ZZZZZZ		1	13:38												
ZZZZZZ		1	13:43												
ZZZZZZ		1	13:47												
CCV		1	13:52	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	
CCB		1	13:57	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: THERMO ICAP 6500 **File Name:** IIA15A

Date: 1/15/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements											
Blank		1	16:29	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
Std 1		1	16:34	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
ICV		1	16:39	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
ICB		1	16:46	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
PQL		1	16:51	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
ZZZZZZ		1	16:58															
ZZZZZZ		1	17:03															
ICSA		1	17:12	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
ICSAB		1	17:17	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
CCV		1	17:23	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
CCB		1	17:28	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
ZZZZZZ		10	17:34															
ZZZZZZ		5	17:39															
ZZZZZZ		2	17:44															
ZZZZZZ		1	17:49															
ZZZZZZ		1	17:54															
ZZZZZZ		1	17:59															
ZZZZZZ		1	18:04															
ZZZZZZ		1	18:09															
ZZZZZZ		1	18:14															
ZZZZZZ		1	18:19															
CCV		1	18:24	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
CCB		1	18:29	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
PBWIA14ICW2		1	18:34	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
LCSWIA14ICW2		1	18:39	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
ZZZZZZ		1	18:44															
ZZZZZZ		1	18:49															

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: THERMO ICAP 6500 **File Name:** IIA15A

Date: 1/15/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements													
ZZZZZZ		1	18:54														
SI0230-002	IDWGW-3178-011315	1	18:59	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
SI0230-003	IDWGW-F0A37-011315	1	19:04	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
SI0230-004	IDWGW-EG332-011315	1	19:09	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
SI0230-004L	IDWGW-EG332-011315L	5	19:14	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
SI0230-004A	IDWGW-EG332-011315A	1	19:19	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
CCV		1	19:24	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
CCB		1	19:29	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
SI0230-004P	IDWGW-EG332-011315P	1	19:34	AL	SB	BA	BE	CD		CR	CU	FE	MG	MN	NI	K	SE	
SI0230-004S	IDWGW-EG332-011315S	1	19:39	AL	SB	BA	BE	CD		CR	CU	FE	MG	MN	NI	K	SE	
CCV		1	19:44	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG
CCB		1	19:49	AL	SB	BA	BE	CD	CA	CR	CU	FE	MG	MN	NI	K	SE	AG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: THERMO ICAP 6500 **File Name:** IIA22B

Date: 1/22/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements																
Blank		1	16:49	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
Std 1		1	16:54	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
ICV		1	16:59	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
ICB		1	17:06	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
PQL		1	17:11	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
ZZZZZZ		1	17:18																	
ZZZZZZ		1	17:23																	
ICSA		1	17:32	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
ICSAB		1	17:36	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
CCV		1	17:43	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
CCB		1	17:48	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
ZZZZZZ		1	17:53																	
ZZZZZZ		1	17:58																	
ZZZZZZ		1	18:03																	
ZZZZZZ		1	18:08																	
ZZZZZZ		1	18:13																	
ZZZZZZ		1	18:18																	
ZZZZZZ		1	18:24																	
ZZZZZZ		1	18:29																	
ZZZZZZ		1	18:34																	
ZZZZZZ		1	18:39																	
CCV		1	18:44	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
CCB		1	18:49	AL	AS	BA	CD	CA	CR	CO	FE	PB	MG	SE	AG	NA	TL	V	ZN	
ZZZZZZ		1	18:54																	
ZZZZZZ		1	18:59																	
ZZZZZZ		2	19:04																	
ZZZZZZ		5	19:09																	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: THERMO ICAP 6500 **File Name:** IIA22B

Date: 1/22/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	19:14	
ZZZZZZ		2	19:19	
ZZZZZZ		5	19:24	
PBWIA14ICW2		1	19:30	AS CO PB NA TL V ZN
LCSWIA14ICW2		1	19:35	AS CO PB NA TL V ZN
SI0230-002	IDWGW-3178-011315	1	19:40	AS CO PB NA TL V ZN
CCV		1	19:45	AL AS BA CD CA CR CO FE PB MG SE AG NA TL V ZN
CCB		1	19:50	AL AS BA CD CA CR CO FE PB MG SE AG NA TL V ZN
SI0230-003	IDWGW-F0A37-011315	1	19:55	AS CO PB NA TL V ZN
SI0230-004	IDWGW-EG332-011315	1	20:00	AS CO PB NA TL V ZN
SI0230-004L	IDWGW-EG332-011315L	5	20:05	AS CO PB NA TL V ZN
SI0230-004A	IDWGW-EG332-011315A	1	20:10	AS CO PB NA TL V ZN
SI0230-004S	IDWGW-EG332-011315S	1	20:15	AS CA CO PB AG NA TL V ZN
SI0230-004P	IDWGW-EG332-011315P	1	20:20	AS CA CO PB AG NA TL V ZN
ZZZZZZ		1	20:25	
ZZZZZZ		5	20:30	
PBWIA16ICW1		1	20:35	AS BA CD CR PB SE AG
LCSWIA16ICW1		1	20:40	AS BA CD CR PB SE AG
CCV		1	20:45	AL AS BA CD CA CR CO FE PB MG SE AG NA TL V ZN
CCB		1	20:50	AL AS BA CD CA CR CO FE PB MG SE AG NA TL V ZN
ZZZZZZ		1	20:55	
ZZZZZZ		1	21:00	
ZZZZZZ		1	21:05	
ZZZZZZ		1	21:10	
ZZZZZZ		1	21:15	
ZZZZZZ		1	21:20	
ZZZZZZ		1	21:25	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI0230

Instrument ID: THERMO ICAP 6500 **File Name:** IIA22B

Date: 1/22/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements																			
ZZZZZZ		1	21:29																				
SI0230-001T	IDWS-0312-011315T	1	21:34		AS	BA		CD		CR			PB			SE		AG					
ZZZZZZ		1	21:39																				
CCV		1	21:44	AL	AS	BA		CD	CA	CR	CO		FE	PB	MG	SE		AG	NA		TL		V	ZN
CCB		1	21:49	AL	AS	BA		CD	CA	CR	CO		FE	PB	MG	SE		AG	NA		TL		V	ZN

Raw Data Section

KATAHDIN ANALYTICAL SERVICES, INC.
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: Cetac M6100 (H) **ANALYST:** GEJ **DATE:** 01.07.15

FILE NAME: H1A07A **METHOD: CVAA**

245.1

747 0

CLP

Other (List): _____

REVIEWED
1-08-15
KATAHDIN ANALYTICAL
METALS SECTION

Analyte : Mercury

SnCl2 : MR1423

STANDARDS USED:

Standard Name	Standard ID	Prep Date	Expiration Date	Standard Conc.
CalBlank/ICB/CCB	N/A	01.07.15	01.08.15	0.00 ug/L
Standard #1 / PQL				0.20 ug/L
Standard #2				0.50 ug/L
Standard #3				1.00 ug/L
Standard #4 / CCV				5.00 ug/L
Standard #5				10.00 ug/L
ICV				8.00 ug/L

Additional Comments and Notes:

GEJ 01.07.15

INSTRUMENT RUNLOG

Instrument: CETAC M6100

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Calibration Blank	1.0000	HIA07A	1/7/2015	16:43	GEJ
Standard #1 (0.2 ppb)	1.0000	HIA07A	1/7/2015	16:45	GEJ
Standard #2 (0.5 ppb)	1.0000	HIA07A	1/7/2015	16:48	GEJ
Standard #3 (1.0 ppb)	1.0000	HIA07A	1/7/2015	16:50	GEJ
Standard #4 (5.0 ppb)	1.0000	HIA07A	1/7/2015	16:52	GEJ
Standard #5 (10.0 ppb)	1.0000	HIA07A	1/7/2015	16:54	GEJ
ICV	1.0000	HIA07A	1/7/2015	16:56	GEJ
ICB	1.0000	HIA07A	1/7/2015	16:58	GEJ
PQL	1.0000	HIA07A	1/7/2015	17:00	GEJ
CCV	1.0000	HIA07A	1/7/2015	17:02	GEJ
CCB	1.0000	HIA07A	1/7/2015	17:04	GEJ
LCSWIA07HGW1	1.0000	HIA07A	1/7/2015	17:07	GEJ
PBWIA07HGW1	1.0000	HIA07A	1/7/2015	17:09	GEJ
LCSWIA07HGW2	1.0000	HIA07A	1/7/2015	17:11	GEJ
PBWIA07HGW2	1.0000	HIA07A	1/7/2015	17:13	GEJ
SI0018-001T	1.0000	HIA07A	1/7/2015	17:15	GEJ
SI0027-001T	1.0000	HIA07A	1/7/2015	17:18	GEJ
SI0027-002T	1.0000	HIA07A	1/7/2015	17:20	GEJ
SI0027-003T	1.0000	HIA07A	1/7/2015	17:22	GEJ
SI0027-004T	1.0000	HIA07A	1/7/2015	17:24	GEJ
CCV	1.0000	HIA07A	1/7/2015	17:26	GEJ
CCB	1.0000	HIA07A	1/7/2015	17:28	GEJ
SI0027-005T	1.0000	HIA07A	1/7/2015	17:30	GEJ
SI0027-006T	1.0000	HIA07A	1/7/2015	17:32	GEJ
SI0027-006TL	5.0000	HIA07A	1/7/2015	17:35	GEJ
SI0027-006TA	1.0000	HIA07A	1/7/2015	17:37	GEJ
SI0027-006TP	1.0000	HIA07A	1/7/2015	17:39	GEJ
SI0027-006TS	1.0000	HIA07A	1/7/2015	17:41	GEJ
TH0786-015T	1.0000	HIA07A	1/7/2015	17:43	GEJ
PBT1221A	1.0000	HIA07A	1/7/2015	17:45	GEJ
PBT1222A	1.0000	HIA07A	1/7/2015	17:47	GEJ
TH0472-001	1.0000	HIA07A	1/7/2015	17:49	GEJ
CCV	1.0000	HIA07A	1/7/2015	17:52	GEJ
CCB	1.0000	HIA07A	1/7/2015	17:54	GEJ

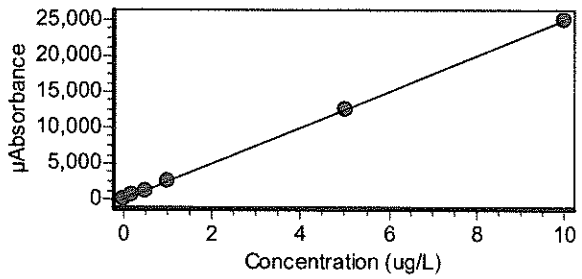
Report Generated By CETAC QuickTrace
Analyst: metals
Worksheet file: C:\Program Files\QuickTrace\Worksheets\HIA07A.wsz
Date Started: 1/7/2015 4:40:48 PM
Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
Calibration Blank					STD	01/07/15 04:43:48 pm	0.000	39	141.68		1.00
Replicates	-11.9	112.7	4.7	52.4							
Standard #1 (0.2 ppb)					STD	01/07/15 04:45:54 pm	0.200	480	5.37		1.00
Replicates	512.0	488.0	456.4	461.5							
Standard #2 (0.5 ppb)					STD	01/07/15 04:48:00 pm	0.500	1167	6.45		1.00
Replicates	1209.2	1248.0	1127.6	1082.6							
Standard #3 (1.0 ppb)					STD	01/07/15 04:50:07 pm	1.000	2344	6.03		1.00
Replicates	2517.8	2386.0	2286.4	2187.2							
Standard #4 (5.0 ppb)					STD	01/07/15 04:52:15 pm	5.000	12422	5.01		1.00
Replicates	13120.8	12719.7	12132.7	11714.7							
Standard #5 (10.0 ppb)					STD	01/07/15 04:54:22 pm	10.000	24972	3.20		1.00
Replicates	25565.0	25470.3	25026.8	23825.8							

Calibration

Equation: A = -55.544 + 2500.440C
R2: 0.99996
SEE: 74.6208
Flags:



ICV					ICV	01/07/15 04:56:31 pm	6.160	15348	5.91		1.00
Replicates	16174.0	15885.3	15197.8	14134.5							
% Recovery	102.67										
ICB					ICB	01/07/15 04:58:36 pm	0.026	10	203.80		1.00
Replicates	-7.7	14.2	35.2	-3.3							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
PQL					CRDL	01/07/15 05:00:42 pm	0.221	496	7.83		1.00
	Replicates	497.9	531.5	512.5	441.4						
	% Recovery	110.25									
CCV					IPR	01/07/15 05:02:49 pm	5.140	12796	5.75		1.00
	Replicates	13477.1	13236.7	12647.6	11824.6						
	% Recovery	102.80									
CCB					CCB	01/07/15 05:04:55 pm	0.007	-38	98.20		1.00
	Replicates	-40.1	-71.0	14.8	-56.4						
LCSWIA07HGW1					LCS	01/07/15 05:07:29 pm	5.055	12583	3.06		1.00
	Replicates	12996.8	12796.6	12395.7	12143.7						
	% Recovery	101.09									
PBWIA07HGW1					PBK	01/07/15 05:09:36 pm	0.004	-45	47.12		1.00
	Replicates	-16.0	-42.6	-61.6	-60.3						
LCSWIA07HGW2					LCS	01/07/15 05:11:42 pm	5.174	12882	5.08		1.00
	Replicates	13498.5	13270.1	12730.1	12027.8						
	% Recovery	103.48									
PBWIA07HGW2					PBK	01/07/15 05:13:50 pm	0.019	-9	421.24		1.00
	Replicates	-62.7	-3.6	28.4	1.5						
SI0018-001T					UNK	01/07/15 05:15:57 pm	0.037	37	89.72		1.00
	Replicates	68.5	60.9	19.3	-0.7						
SI0027-001T					UNK	01/07/15 05:18:04 pm	0.018	-11	85.42		1.00
	Replicates	-9.9	1.0	-12.5	-21.0						
SI0027-002T					UNK	01/07/15 05:20:11 pm	0.024	4	559.36		1.00
	Replicates	10.0	-17.8	29.0	-6.6						
SI0027-003T					UNK	01/07/15 05:22:18 pm	0.032	24	132.26		1.00
	Replicates	65.4	12.5	28.8	-10.3						
SI0027-004T					UNK	01/07/15 05:24:26 pm	0.015	-19	145.21		1.00
	Replicates	-51.9	-28.5	6.7	-0.5						

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV					CCV	01/07/15 05:26:34 pm	5.332	13277	5.13		1.00
Replicates	14014.7	13608.2	13033.0	12453.5							
% Recovery	106.64										
CCB					CCB	01/07/15 05:28:39 pm	0.023	1	515.39		1.00
Replicates	-3.4	-0.5	11.2	-2.1							
SI0027-005T					UNK	01/07/15 05:30:47 pm	0.035	33	75.09		1.00
Replicates	34.3	53.7	45.3	-2.2							
SI0027-006T					UNK	01/07/15 05:32:54 pm	0.025	6	423.22		1.00
Replicates	21.7	-31.8	22.4	11.9							
SI0027-006TL					UNK	01/07/15 05:35:01 pm	0.162	26	104.01		5.00
Replicates	42.0	40.3	-14.0	34.0							
SI0027-006TA					UNK	01/07/15 05:37:09 pm	1.016	2485	4.21		1.00
Replicates	2586.1	2558.3	2433.1	2364.5							
SI0027-006TP					UNK	01/07/15 05:39:17 pm	1.438	3540	4.06		1.00
Replicates	3643.3	3672.8	3477.1	3367.8							
SI0027-006TS					UNK	01/07/15 05:41:25 pm	1.238	3039	2.95		1.00
Replicates	3051.6	3159.3	2952.6	2994.5							
TH0786-015T					UNK	01/07/15 05:43:33 pm	0.201	446	6.83		1.00
Replicates	449.5	423.7	423.7	488.2							
PBT1221A					UNK	01/07/15 05:45:40 pm	-0.001	-58	57.04		1.00
Replicates	-39.7	-21.2	-91.4	-80.4							
PBT1222A					UNK	01/07/15 05:47:48 pm	-0.004	-66	7.25		1.00
Replicates	-62.4	-65.1	-64.8	-73.4							
TH0472-001					UNK	01/07/15 05:49:57 pm	0.019	-8	374.23		1.00
Replicates	-20.9	31.8	-3.0	-40.9							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV					CCV	01/07/15 05:52:04 pm	5.244	13057	4.92		1.00
	Replicates	13645.5	13405.4	12998.5	12180.5						
	% Recovery	104.89									
CCB					CCB	01/07/15 05:54:10 pm	0.039	43	106.26		1.00
	Replicates	12.0	100.6	58.4	1.1						

KATAHDIN ANALYTICAL SERVICES, INC.
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: Cetac M6100 (H) **ANALYST:** GEJ **DATE:** 01·14·15

FILE NAME: H1A14A **METHOD:** CVAA

245.1

Analyte : Mercury 7470

CLP

$SnCl_2$: MRM26 Other (List): _____

REVIEWED
01-16-15
KATAHDIN ANALYTICAL
METALS SECTION

STANDARDS USED:

Standard Name	Standard ID	Prep Date	Expiration Date	Standard Conc.
CalBlank/ICB/CCB	N1A	01·14·15	02·03·15	0.00 ug/L
Standard #1 / PQL	↓	↓	↓	0.20 ug/L
Standard #2	↓	↓	↓	0.50 ug/L
Standard #3	↓	↓	↓	1.00 ug/L
Standard #4 / CCV	↓	↓	↓	5.00 ug/L
Standard #5	↓	↓	↓	10.00 ug/L
ICV	↓	↓	↓	6.00 ug/L

Additional Comments and Notes:

GEJ 01.15.15

INSTRUMENT RUNLOG

Instrument: CETAC M6100

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Calibration Blank	1.0000	HIA14A	1/14/2015	13:15	GEJ
Standard #1 (0.2 ppb)	1.0000	HIA14A	1/14/2015	13:17	GEJ
Standard #2 (0.5 ppb)	1.0000	HIA14A	1/14/2015	13:19	GEJ
Standard #3 (1.0 ppb)	1.0000	HIA14A	1/14/2015	13:21	GEJ
Standard #4 (5.0 ppb)	1.0000	HIA14A	1/14/2015	13:23	GEJ
Standard #5 (10.0 ppb)	1.0000	HIA14A	1/14/2015	13:25	GEJ
ICV	1.0000	HIA14A	1/14/2015	13:27	GEJ
ICB	1.0000	HIA14A	1/14/2015	13:29	GEJ
PQL	1.0000	HIA14A	1/14/2015	13:32	GEJ
CCV	1.0000	HIA14A	1/14/2015	13:34	GEJ
CCB	1.0000	HIA14A	1/14/2015	13:36	GEJ
LCSWIA13HGW2	1.0000	HIA14A	1/14/2015	13:38	GEJ
PBWIA13HGW2	1.0000	HIA14A	1/14/2015	13:40	GEJ
SI0145-001T	1.0000	HIA14A	1/14/2015	13:42	GEJ
PBT1223A	1.0000	HIA14A	1/14/2015	13:44	GEJ
PBT1224A	1.0000	HIA14A	1/14/2015	13:46	GEJ
SI0096-001	1.0000	HIA14A	1/14/2015	13:48	GEJ
SI0096-002	1.0000	HIA14A	1/14/2015	13:51	GEJ
SI0096-003	1.0000	HIA14A	1/14/2015	13:53	GEJ
SI0096-004	1.0000	HIA14A	1/14/2015	13:55	GEJ
CCV	1.0000	HIA14A	1/14/2015	13:57	GEJ
CCB	1.0000	HIA14A	1/14/2015	13:59	GEJ
SI0137-003	1.0000	HIA14A	1/14/2015	14:01	GEJ
SI0137-004	1.0000	HIA14A	1/14/2015	14:03	GEJ
SI0137-005	1.0000	HIA14A	1/14/2015	14:05	GEJ
SI0137-008	1.0000	HIA14A	1/14/2015	14:10	GEJ
SI0171-003T	1.0000	HIA14A	1/14/2015	14:12	GEJ
SI0171-013	1.0000	HIA14A	1/14/2015	14:14	GEJ
SI0171-013L	5.0000	HIA14A	1/14/2015	14:16	GEJ
SI0171-013A	1.0000	HIA14A	1/14/2015	14:18	GEJ
SI0171-013P	1.0000	HIA14A	1/14/2015	14:20	GEJ
SI0171-013S	1.0000	HIA14A	1/14/2015	14:22	GEJ
CCV	1.0000	HIA14A	1/14/2015	14:24	GEJ
CCB	1.0000	HIA14A	1/14/2015	14:27	GEJ
LCSWIA13HGW1	1.0000	HIA14A	1/14/2015	14:29	GEJ
PBWIA13HGW1	1.0000	HIA14A	1/14/2015	14:31	GEJ
SI0129-002	1.0000	HIA14A	1/14/2015	14:34	GEJ
SI0168-001	1.0000	HIA14A	1/14/2015	14:36	GEJ
SI0168-003	1.0000	HIA14A	1/14/2015	14:38	GEJ
SI0189-001	1.0000	HIA14A	1/14/2015	14:41	GEJ
SI0189-002	1.0000	HIA14A	1/14/2015	14:44	GEJ
SI0189-003	1.0000	HIA14A	1/14/2015	14:46	GEJ
SI0189-004	1.0000	HIA14A	1/14/2015	14:49	GEJ
SI0189-005	1.0000	HIA14A	1/14/2015	14:51	GEJ

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
CCV	1.0000	HIA14A	1/14/2015	14:53	GEJ
CCB	1.0000	HIA14A	1/14/2015	14:55	GEJ
LCSWIA14HGW1	1.0000	HIA14A	1/14/2015	14:57	GEJ
PBWIA14HGW1	1.0000	HIA14A	1/14/2015	14:59	GEJ
LCSWIA14HGW2	1.0000	HIA14A	1/14/2015	15:01	GEJ
PBWIA14HGW2	1.0000	HIA14A	1/14/2015	15:03	GEJ
SI0226-001	1.0000	HIA14A	1/14/2015	15:06	GEJ
SI0226-001L	5.0000	HIA14A	1/14/2015	15:09	GEJ
SI0226-001A	1.0000	HIA14A	1/14/2015	15:11	GEJ
SI0226-001P	1.0000	HIA14A	1/14/2015	15:13	GEJ
SI0226-001S	1.0000	HIA14A	1/14/2015	15:15	GEJ
CCV	1.0000	HIA14A	1/14/2015	15:17	GEJ
CCB	1.0000	HIA14A	1/14/2015	15:19	GEJ
SI0230-002	1.0000	HIA14A	1/14/2015	15:21	GEJ
SI0230-003	1.0000	HIA14A	1/14/2015	15:24	GEJ
SI0230-004	1.0000	HIA14A	1/14/2015	15:26	GEJ
SI0188-002	1.0000	HIA14A	1/14/2015	15:28	GEJ
SI0188-003	1.0000	HIA14A	1/14/2015	15:30	GEJ
SI0189-001	5.0000	HIA14A	1/14/2015	15:32	GEJ
SI0189-002	5.0000	HIA14A	1/14/2015	15:34	GEJ
CCV	1.0000	HIA14A	1/14/2015	15:36	GEJ
CCB	1.0000	HIA14A	1/14/2015	15:39	GEJ

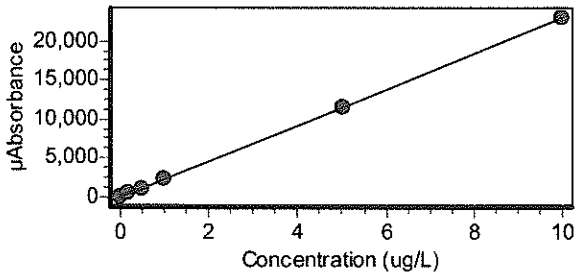
Report Generated By CETAC QuickTrace
Analyst: metals
Worksheet file: C:\Program Files\QuickTrace\Worksheets\HIA14A.wsz
Date Started: 1/14/2015 1:12:49 PM
Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
Calibration Blank					STD	01/14/15 01:15:07 pm	0.000	-11	159.07		1.00
Replicates	-0.6	2.7	-10.0	-34.8							
Standard #1 (0.2 ppb)					STD	01/14/15 01:17:12 pm	0.200	459	2.26		1.00
Replicates	452.2	462.9	449.0	471.7							
Standard #2 (0.5 ppb)					STD	01/14/15 01:19:19 pm	0.500	1110	2.46		1.00
Replicates	1149.7	1098.0	1101.7	1089.0							
Standard #3 (1.0 ppb)					STD	01/14/15 01:21:25 pm	1.000	2273	2.35		1.00
Replicates	2286.8	2314.6	2295.3	2194.4							
Standard #4 (5.0 ppb)					STD	01/14/15 01:23:33 pm	5.000	11428	1.20		1.00
Replicates	11256.2	11386.0	11501.1	11568.5							
Standard #5 (10.0 ppb)					STD	01/14/15 01:25:41 pm	10.000	23091	0.68		1.00
Replicates	22898.9	23025.7	23221.4	23219.0							

Calibration

Equation: A = -33.463 + 2308.419C
R2: 0.99998
SEE: 49.3528
Flags:



ICV					ICV	01/14/15 01:27:49 pm	6.004	13826	1.26		1.00
Replicates	13614.4	13758.9	13925.9	14003.2							
% Recovery	100.06										
ICB					ICB	01/14/15 01:29:55 pm	-0.003	-41	46.83		1.00
Replicates	-63.2	-25.2	-24.7	-50.5							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
PQL					CRDL	01/14/15 01:32:00 pm	0.206	442	5.90		1.00
	Replicates	440.5	413.8	477.0	437.6						
	% Recovery	103.03									
CCV					IPR	01/14/15 01:34:08 pm	4.895	11267	0.91		1.00
	Replicates	11171.0	11197.6	11305.0	11392.6						
	% Recovery	97.90									
CCB					CCB	01/14/15 01:36:13 pm	-0.003	-40	19.40		1.00
	Replicates	-46.2	-28.8	-40.5	-43.8						
LCSWIA13HGW2					LCS	01/14/15 01:38:19 pm	4.826	11106	1.56		1.00
	Replicates	10905.2	11039.8	11169.5	11309.8						
	% Recovery	96.51									
PBWIAHGW2					PBK	01/14/15 01:40:26 pm	0.014	-1	799.64		1.00
	Replicates	-28.2	-67.1	61.0	29.5						
SI0145-001T					UNK	01/14/15 01:42:33 pm	0.012	-5	350.39		1.00
	Replicates	-17.5	7.0	-24.4	13.8						
PBT1223A					UNK	01/14/15 01:44:40 pm	0.018	8	317.16		1.00
	Replicates	32.0	-25.0	26.4	-0.3						
PBT1224A					UNK	01/14/15 01:46:48 pm	0.010	-9	174.49		1.00
	Replicates	-20.8	14.7	-13.3	-18.1						
SI0096-001					UNK	01/14/15 01:48:55 pm	0.016	2	688.69		1.00
	Replicates	7.5	-49.6	4.4	47.1						
SI0096-002					UNK	01/14/15 01:51:02 pm	0.025	25	94.83		1.00
	Replicates	57.3	4.3	10.6	27.9						
SI0096-003					UNK	01/14/15 01:53:09 pm	0.014	-2	206.69		1.00
	Replicates	-38.3	21.7	-40.4	48.9						
SI0096-004					UNK	01/14/15 01:55:17 pm	0.009	-13	306.65		1.00
	Replicates	-67.6	20.7	10.7	-15.3						

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV					CCV	01/14/15 01:57:24 pm	5.018	11550	0.97		1.00
	Replicates	11410.3	11512.6	11617.8	11660.1						
	% Recovery	100.36									
CCB					CCB	01/14/15 01:59:30 pm	0.010	-11	162.91		1.00
	Replicates	5.3	-6.4	-37.3	-6.4						
SI0137-003					UNK	01/14/15 02:01:38 pm	0.024	23	118.05		1.00
	Replicates	23.7	-6.9	16.0	57.3						
SI0137-004					UNK	01/14/15 02:03:45 pm	0.019	11	192.94		1.00
	Replicates	38.6	-8.2	10.8	0.8						
SI0137-005					UNK	01/14/15 02:05:52 pm	0.022	17	174.54		1.00
	Replicates	31.6	38.6	-27.6	26.9						
SI0137-008					UNK	01/14/15 02:10:00 pm	0.050	83	68.91		1.00
	Replicates	109.1	28.6	43.0	150.1						
SI0171-003T					UNK	01/14/15 02:12:08 pm	0.057	98	20.14		1.00
	Replicates	113.9	108.4	69.8	98.3						
SI0171-013					UNK	01/14/15 02:14:17 pm	0.025	25	170.49		1.00
	Replicates	73.9	41.4	-26.8	12.0						
SI0171-013L					UNK	01/14/15 02:16:24 pm	0.101	13	265.63		5.00
	Replicates	-22.3	40.9	44.8	-11.1						
SI0171-013A					UNK	01/14/15 02:18:32 pm	0.997	2268	1.66		1.00
	Replicates	2232.1	2250.5	2269.9	2319.4						
SI0171-013P					UNK	01/14/15 02:20:40 pm	1.054	2400	1.24		1.00
	Replicates	2371.4	2376.7	2422.3	2428.2						
SI0171-013S					UNK	01/14/15 02:22:48 pm	0.993	2260	0.86		1.00
	Replicates	2277.0	2232.0	2262.9	2267.2						

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV					CCV	01/14/15 02:24:56 pm	4.975	11451	1.17		1.00
	Replicates	11310.2	11367.7	11531.4	11595.2						
	% Recovery	99.50									
CCB					CCB	01/14/15 02:27:01 pm	-0.007	-49	47.51		1.00
	Replicates	-38.3	-22.1	-62.8	-73.8						
LCSWIA13HGW1					LCS	01/14/15 02:29:10 pm	4.916	11314	1.33		1.00
	Replicates	11142.4	11235.3	11455.3	11424.0						
	% Recovery	98.32									
PBWIA13HGW1					PBK	01/14/15 02:31:18 pm	0.003	-26	112.24		1.00
	Replicates	5.3	-60.0	-39.6	-10.1						
SI0129-002					UNK	01/14/15 02:34:37 pm	0.013	-4	365.81		1.00
	Replicates	9.8	2.0	-3.2	-24.7						
SI0168-001					UNK	01/14/15 02:36:45 pm	0.031	38	65.88		1.00
	Replicates	53.4	48.1	48.6	0.6						
SI0168-003					UNK	01/14/15 02:38:54 pm	0.002	-28	122.14		1.00
	Replicates	23.0	-46.3	-47.2	-40.7						
SI0189-001					UNK	01/14/15 02:41:03 pm	31.650	73017	0.70	O	1.00
	Replicates	72447.8	72719.6	73412.1	73489.9						
SI0189-002					UNK	01/14/15 02:44:43 pm	16.770	38672	0.89	O	1.00
	Replicates	38255.3	38524.2	38931.7	38974.9						
SI0189-003					UNK	01/14/15 02:46:51 pm	0.821	1863	1.90		1.00
	Replicates	1830.5	1837.7	1875.4	1906.7						
SI0189-004					UNK	01/14/15 02:49:00 pm	0.489	1095	1.81		1.00
	Replicates	1071.9	1100.5	1090.1	1119.3						
SI0189-005					UNK	01/14/15 02:51:09 pm	0.396	882	3.42		1.00
	Replicates	865.1	879.9	856.8	924.4						

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV					CCV	01/14/15 02:53:16 pm	5.159	11875	1.66		1.00
	Replicates	11622.2	11826.3	11980.5	12072.5						
	% Recovery	103.18									
CCB					CCB	01/14/15 02:55:22 pm	0.022	18	145.18		1.00
	Replicates	56.0	-0.9	9.6	6.5						
LCSWIA14HGW1					LCS	01/14/15 02:57:31 pm	4.771	10980	1.09		1.00
	Replicates	10829.8	10951.9	11028.7	11110.9						
	% Recovery	95.42									
PBWIA14HGW1					PBK	01/14/15 02:59:40 pm	-0.006	-46	94.98		1.00
	Replicates	-8.6	-75.4	-8.7	-92.0						
LCSWIA14HGW2					LCS	01/14/15 03:01:48 pm	4.793	11032	2.43		1.00
	Replicates	10713.3	10934.2	11146.5	11333.0						
	% Recovery	95.87									
PBWIA14HGW2					PBK	01/14/15 03:03:57 pm	-0.025	-90	32.86		1.00
	Replicates	-86.0	-125.7	-95.4	-53.7						
SI0226-001					UNK	01/14/15 03:06:52 pm	0.037	53	101.28		1.00
	Replicates	127.4	11.8	15.3	58.0						
SI0226-001L					UNK	01/14/15 03:09:00 pm	0.046	-12	390.30		5.00
	Replicates	31.1	19.5	-25.1	-75.1						
SI0226-001A					UNK	01/14/15 03:11:09 pm	0.685	1549	2.23		1.00
	Replicates	1544.5	1501.3	1576.8	1571.8						
SI0226-001P					UNK	01/14/15 03:13:19 pm	0.839	1903	3.09		1.00
	Replicates	1853.0	1935.2	1853.6	1969.1						
SI0226-001S					UNK	01/14/15 03:15:28 pm	0.901	2046	0.57		1.00
	Replicates	2034.0	2042.3	2046.2	2062.0						
CCV					CCV	01/14/15 03:17:36 pm	4.740	10908	0.90		1.00
	Replicates	10800.1	10853.0	10972.7	11006.9						
	% Recovery	94.80									

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCB				CCB	01/14/15 03:19:41 pm	0.018	9	337.70		1.00
Replicates	43.6	-25.2	-3.7	20.5						
SI0230-002				UNK	01/14/15 03:21:51 pm	0.046	73	78.72		1.00
Replicates	63.2	23.9	49.7	156.2						
SI0230-003				UNK	01/14/15 03:24:00 pm	0.064	115	59.03		1.00
Replicates	97.3	80.2	67.7	215.5						
SI0230-004				UNK	01/14/15 03:26:10 pm	0.014	-1	015.77		1.00
Replicates	39.3	-13.0	-24.9	-4.2						
SI0188-002				UNK	01/14/15 03:28:19 pm	0.049	79	4.56		1.00
Replicates	81.3	81.4	73.7	78.9						
SI0188-003				UNK	01/14/15 03:30:29 pm	0.033	42	75.35		1.00
Replicates	45.0	17.4	20.0	85.7						
SI0189-001				UNK	01/14/15 03:32:40 pm	34.440	15865	0.25		5.00
Replicates	15852.4	15816.2	15909.9	15880.4						
SI0189-002				UNK	01/14/15 03:34:49 pm	17.820	8193	0.78		5.00
Replicates	8129.9	8147.0	8235.2	8258.0						
CCV				CCV	01/14/15 03:36:57 pm	5.052	11628	1.21		1.00
Replicates	11498.4	11531.8	11676.3	11804.9						
% Recovery	101.03									
CCB				CCB	01/14/15 03:39:02 pm	0.017	5	455.65		1.00
Replicates	-2.2	-11.6	-5.9	40.8						

KATAHDIN ANALYTICAL SERVICES, INC.
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: Cetac M6100 (H) **ANALYST**: CA **DATE**: 01-16-15

FILE NAME: HIA16A **METHOD**: CVAA

245.__

747 O

CLP

Other (List): _____

REVIEWED
MM 1-20-15
KATAHDIN ANALYTICAL
METALS SECTION

Analyte : Mercury

$SnCl_2$: MR1426

STANDARDS USED:

Standard Name	Standard ID	Prep Date	Expiration Date	Standard Conc.
CalBlank/ICB/CCB	N/A	01-16-15	02-08-15	0.00 ug/L
Standard #1 / PQL				0.20 ug/L
Standard #2				0.50 ug/L
Standard #3				1.00 ug/L
Standard #4 / CCV				5.00 ug/L
Standard #5				10.00 ug/L
ICV				6.00 ug/L
	CA	01-16-15		

Additional Comments and Notes:

* IDL TV = 0.1 ug/L

MM 1-20-15

INSTRUMENT RUNLOG

Instrument: CETAC M6100

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Calibration Blank	1.0000	HIA16A	1/16/2015	13:50	EAM
Standard #1 (0.2 ppb)	1.0000	HIA16A	1/16/2015	13:52	EAM
Standard #2 (0.5 ppb)	1.0000	HIA16A	1/16/2015	13:54	EAM
Standard #3 (1.0 ppb)	1.0000	HIA16A	1/16/2015	13:56	EAM
Standard #4 (5.0 ppb)	1.0000	HIA16A	1/16/2015	13:58	EAM
Standard #5 (10.0 ppb)	1.0000	HIA16A	1/16/2015	14:00	EAM
ICV	1.0000	HIA16A	1/16/2015	14:02	EAM
ICB	1.0000	HIA16A	1/16/2015	14:04	EAM
PQL	1.0000	HIA16A	1/16/2015	14:06	EAM
LCSWIA16HGW1	1.0000	HIA16A	1/16/2015	14:09	EAM
PBWIA16HGW1	1.0000	HIA16A	1/16/2015	14:11	EAM
PBT1225A	1.0000	HIA16A	1/16/2015	14:13	EAM
SI0227-001T	1.0000	HIA16A	1/16/2015	14:15	EAM
SI0227-002T	1.0000	HIA16A	1/16/2015	14:17	EAM
SI0227-003T	1.0000	HIA16A	1/16/2015	14:19	EAM
SI0227-004T	1.0000	HIA16A	1/16/2015	14:21	EAM
SI0210-002	1.0000	HIA16A	1/16/2015	14:23	EAM
SI0230-001T	1.0000	HIA16A	1/16/2015	14:25	EAM
CCV	1.0000	HIA16A	1/16/2015	14:28	EAM
CCB	1.0000	HIA16A	1/16/2015	14:30	EAM
SI0172-006T	1.0000	HIA16A	1/16/2015	14:32	EAM
SI0172-008T	1.0000	HIA16A	1/16/2015	14:34	EAM
SI0172-010T	1.0000	HIA16A	1/16/2015	14:36	EAM
SI0172-012T	1.0000	HIA16A	1/16/2015	14:38	EAM
SI0199-002T	1.0000	HIA16A	1/16/2015	14:40	EAM
SI0199-008	1.0000	HIA16A	1/16/2015	14:42	EAM
CCV	1.0000	HIA16A	1/16/2015	14:45	EAM
CCB	1.0000	HIA16A	1/16/2015	14:47	EAM
IDL1	1.0000	HIA16A	1/16/2015	14:49	EAM
IDL2	1.0000	HIA16A	1/16/2015	14:51	EAM
IDL3	1.0000	HIA16A	1/16/2015	14:53	EAM
IDL4	1.0000	HIA16A	1/16/2015	14:55	EAM
IDL5	1.0000	HIA16A	1/16/2015	14:57	EAM
IDL6	1.0000	HIA16A	1/16/2015	15:00	EAM
IDL7	1.0000	HIA16A	1/16/2015	15:02	EAM
CCV	1.0000	HIA16A	1/16/2015	15:04	EAM
CCB	1.0000	HIA16A	1/16/2015	15:06	EAM

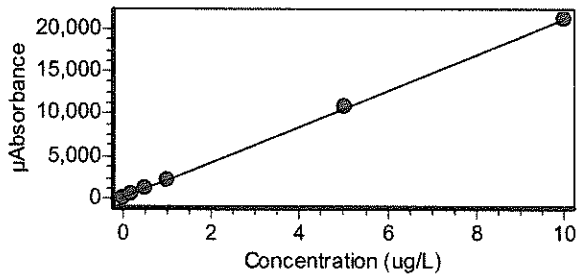
Report Generated By CETAC QuickTrace
Analyst: metals
Worksheet file: C:\Program Files\QuickTrace\Worksheets\HIA16A.wsz
Date Started: 1/16/2015 1:43:53 PM
Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
Calibration Blank					STD	01/16/15 01:50:01 pm	0.000	-5	490.85		1.00
Replicates	-33.7	3.5	-11.1	22.0							
Standard #1 (0.2 ppb)					STD	01/16/15 01:52:07 pm	0.200	381	7.11		1.00
Replicates	348.7	414.1	374.8	386.1							
Standard #2 (0.5 ppb)					STD	01/16/15 01:54:13 pm	0.500	1100	1.67		1.00
Replicates	1072.2	1108.8	1110.3	1107.5							
Standard #3 (1.0 ppb)					STD	01/16/15 01:56:20 pm	1.000	2082	4.42		1.00
Replicates	1982.4	2025.9	2144.7	2173.4							
Standard #4 (5.0 ppb)					STD	01/16/15 01:58:27 pm	5.000	10825	2.56		1.00
Replicates	10509.0	10712.3	10924.3	11153.8							
Standard #5 (10.0 ppb)					STD	01/16/15 02:00:35 pm	10.000	21045	3.24		1.00
Replicates	20287.3	20685.0	21422.3	21785.8							

Calibration

Equation: A = 21.930 + 2113.524C
R2: 0.99979
SEE: 137.8933
Flags:



ICV					ICV	01/16/15 02:02:43 pm	6.213	13152	4.85		1.00
Replicates	12388.3	12909.6	13464.8	13847.1							
% Recovery	103.54										
ICB					ICB	01/16/15 02:04:49 pm	-0.007	7	636.64		1.00
Replicates	-30.1	-32.0	32.8	57.7							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
PQL					CRDL	01/16/15 02:06:55 pm	0.181	405	6.93		1.00
Replicates	365.2	407.8	417.2	430.0							
% Recovery	90.63										
LCSWIA16HGW1					LCS	01/16/15 02:09:01 pm	4.993	10574	3.21		1.00
Replicates	10208.2	10408.8	10689.8	10988.8							
% Recovery	99.85										
PBWIA16HGW1					PBK	01/16/15 02:11:07 pm	-0.019	-17	248.80		1.00
Replicates	18.8	-80.1	-11.0	2.4							
PBT1225A					UNK	01/16/15 02:13:14 pm	-0.011	-1	363.50		1.00
Replicates	18.1	-11.7	6.8	-18.0							
SI0227-001T					UNK	01/16/15 02:15:22 pm	0.024	73	15.62		1.00
Replicates	74.9	58.9	72.1	86.8							
SI0227-002T					UNK	01/16/15 02:17:29 pm	0.048	124	9.89		1.00
Replicates	141.5	113.8	117.4	124.8							
SI0227-003T					UNK	01/16/15 02:19:36 pm	0.013	50	59.79		1.00
Replicates	87.0	18.8	34.8	57.8							
SI0227-004T					UNK	01/16/15 02:21:43 pm	0.025	75	60.48		1.00
Replicates	49.5	85.9	30.4	133.1							
SI0210-002					UNK	01/16/15 02:23:50 pm	0.332	723	3.78		1.00
Replicates	734.5	752.6	714.1	689.1							
SI0230-001T					UNK	01/16/15 02:25:58 pm	-0.001	19	26.74		1.00
Replicates	22.6	23.3	19.6	12.0							
CCV					CCV	01/16/15 02:28:06 pm	5.078	10754	2.52		1.00
Replicates	10492.0	10592.1	10829.1	11101.0							
% Recovery	101.55										
CCB					CCB	01/16/15 02:30:11 pm	0.000	22	50.75		1.00
Replicates	32.2	10.8	13.5	29.7							

KATAHDIN ANALYTICAL SERVICES
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: I (Thermo iCAP 6500) **ANALYST:** [illegible] **ANALYSIS DATE:** 01-08-15

FILE NAME: I1A08A **METHOD:** ICP

- ☑ 200.7
- ☑ 6010C
- ☑ DoD
- ☐ _____

REVIEWED
[illegible] 1-9-15
KATAHDIN ANALYTICAL
METALS SECTION

The pHs of all samples that were tested by direct analysis in this analytical run were checked just prior to analysis and confirmed to be <2. The time of preservation of these samples was checked in the "Measured Turbidity and Preservation of Incoming Samples" logbook to verify that they had been preserved at least 16 hours prior to analysis. These verifications were performed by _____ (initals) on _____ (date).

STANDARDS USED:

Standard Name	Standard ID	Prep. Date	Expiration Date	Standard Conc.
Cal. Blk/ICB/CCB	MW15208	11-20-14	11-20-15	0 ug/L
Standard 1	MW15256	12-19-14	02-14-15	Varies by Element
ICV	MW15263	12-23-14	03-23-15	Varies by Element
PQL	MW15260	12-19-14	03-05-15	Varies by Element
LRS1	MW15238	12-10-14	↓	Varies by Element
LRS2	MW15264	12-23-14	03-05-15	Varies by Element
ICSA	MW15214	11-23-14	02-23-15	Varies by Element
ICSAB	MW15265	12-24-14	02-15-15	Varies by Element
CCV	MW15257	12-19-14	02-14-15	Varies by Element
Internal Standard	MW15261	12-19-14	03-19-15	5.0 mg/L Yttrium

Additional Comments and Notes:

[illegible] 1-9-15

INSTRUMENT RUNLOG

Instrument: ICAP 6500

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Blank	1.000	IIA08A	1/8/2015	11:57	EAM
Std 1	1.000	IIA08A	1/8/2015	12:02	EAM
ICV	1.000	IIA08A	1/8/2015	12:07	EAM
ICB	1.000	IIA08A	1/8/2015	12:14	EAM
PQL	1.000	IIA08A	1/8/2015	12:19	EAM
LRS1	1.000	IIA08A	1/8/2015	12:27	EAM
LRS2	1.000	IIA08A	1/8/2015	12:32	EAM
ICSA	1.000	IIA08A	1/8/2015	12:41	EAM
ICSAB	1.000	IIA08A	1/8/2015	12:46	EAM
CCV	1.000	IIA08A	1/8/2015	12:53	EAM
CCB	1.000	IIA08A	1/8/2015	12:58	EAM
TH0811-005	1.000	IIA08A	1/8/2015	13:03	EAM
PBWIA07ICW2	1.000	IIA08A	1/8/2015	13:08	EAM
LCSWIA07ICW2	1.000	IIA08A	1/8/2015	13:13	EAM
PBT1222A	1.000	IIA08A	1/8/2015	13:18	EAM
SI0027-001T	1.000	IIA08A	1/8/2015	13:23	EAM
SI0027-002T	1.000	IIA08A	1/8/2015	13:28	EAM
SI0027-003T	1.000	IIA08A	1/8/2015	13:33	EAM
SI0027-004T	1.000	IIA08A	1/8/2015	13:38	EAM
SI0027-005T	1.000	IIA08A	1/8/2015	13:43	EAM
SI0027-006T	1.000	IIA08A	1/8/2015	13:47	EAM
CCV	1.000	IIA08A	1/8/2015	13:52	EAM
CCB	1.000	IIA08A	1/8/2015	13:57	EAM
SI0027-006TL	5.000	IIA08A	1/8/2015	14:02	EAM
SI0027-006TA	1.000	IIA08A	1/8/2015	14:08	EAM
SI0027-006TS	1.000	IIA08A	1/8/2015	14:12	EAM
SI0027-006TP	1.000	IIA08A	1/8/2015	14:17	EAM
SI0048-001	1.000	IIA08A	1/8/2015	14:22	EAM
SI0048-002	1.000	IIA08A	1/8/2015	14:27	EAM
PBWIA07ICW1	1.000	IIA08A	1/8/2015	14:32	EAM
LCSWIA07ICW1	1.000	IIA08A	1/8/2015	14:37	EAM
SI0041-001	1.000	IIA08A	1/8/2015	14:42	EAM
SI0041-002	1.000	IIA08A	1/8/2015	14:47	EAM
CCV	1.000	IIA08A	1/8/2015	14:52	EAM
CCB	1.000	IIA08A	1/8/2015	14:57	EAM
SI0041-003	1.000	IIA08A	1/8/2015	15:02	EAM
SI0041-004	1.000	IIA08A	1/8/2015	15:07	EAM
SI0041-004L	5.000	IIA08A	1/8/2015	15:13	EAM
SI0041-004S	1.000	IIA08A	1/8/2015	15:18	EAM
SI0041-004P	1.000	IIA08A	1/8/2015	15:23	EAM
SI0058-001	5.000	IIA08A	1/8/2015	15:28	EAM
SI0058-002	25.00	IIA08A	1/8/2015	15:33	EAM
SI0059-001	5.000	IIA08A	1/8/2015	15:37	EAM
SI0063-001	1.000	IIA08A	1/8/2015	15:43	EAM

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
SI0058-002	5.000	IIA08A	1/8/2015	15:48	EAM
CCV	1.000	IIA08A	1/8/2015	15:53	EAM
CCB	1.000	IIA08A	1/8/2015	15:58	EAM
RINSE	1.000	IIA08A	1/8/2015	16:03	EAM
SI0027-006T	10.00	IIA08A	1/8/2015	16:08	EAM
SI0027-006TL	50.00	IIA08A	1/8/2015	16:13	EAM
SI0027-006TA	10.00	IIA08A	1/8/2015	16:18	EAM
SI0027-006TS	10.00	IIA08A	1/8/2015	16:24	EAM
SI0027-006TP	10.00	IIA08A	1/8/2015	16:29	EAM
RINSE	1.000	IIA08A	1/8/2015	16:34	EAM
PQL	1.000	IIA08A	1/8/2015	16:39	EAM
ICSA	1.000	IIA08A	1/8/2015	16:44	EAM
ICSAB	1.000	IIA08A	1/8/2015	16:49	EAM
CCV	1.000	IIA08A	1/8/2015	16:54	EAM
CCB	1.000	IIA08A	1/8/2015	16:59	EAM
AS10	1.000	IIA08A	1/8/2015	17:04	EAM
RINSE	1.000	IIA08A	1/8/2015	17:09	EAM
CA500	1.000	IIA08A	1/8/2015	17:14	EAM
RINSE	1.000	IIA08A	1/8/2015	17:19	EAM
CO10	1.000	IIA08A	1/8/2015	17:24	EAM
RINSE	1.000	IIA08A	1/8/2015	17:29	EAM
CR10	1.000	IIA08A	1/8/2015	17:35	EAM
RINSE	1.000	IIA08A	1/8/2015	17:40	EAM
CU10	1.000	IIA08A	1/8/2015	17:45	EAM
RINSE	1.000	IIA08A	1/8/2015	17:50	EAM
CCV	1.000	IIA08A	1/8/2015	17:55	EAM
CCB	1.000	IIA08A	1/8/2015	18:00	EAM
MG500	1.000	IIA08A	1/8/2015	18:05	EAM
RINSE	1.000	IIA08A	1/8/2015	18:09	EAM
MN10	1.000	IIA08A	1/8/2015	18:15	EAM
RINSE	1.000	IIA08A	1/8/2015	18:20	EAM
MO5	1.000	IIA08A	1/8/2015	18:25	EAM
RINSE	1.000	IIA08A	1/8/2015	18:30	EAM
NI10	1.000	IIA08A	1/8/2015	18:35	EAM
RINSE	1.000	IIA08A	1/8/2015	18:40	EAM
SN10	1.000	IIA08A	1/8/2015	18:45	EAM
RINSE	1.000	IIA08A	1/8/2015	18:50	EAM
CCV	1.000	IIA08A	1/8/2015	18:56	EAM
CCB	1.000	IIA08A	1/8/2015	19:01	EAM
SR10	1.000	IIA08A	1/8/2015	19:06	EAM
RINSE	1.000	IIA08A	1/8/2015	19:11	EAM
TI10	1.000	IIA08A	1/8/2015	19:16	EAM
RINSE	1.000	IIA08A	1/8/2015	19:21	EAM
V10	1.000	IIA08A	1/8/2015	19:26	EAM
RINSE	1.000	IIA08A	1/8/2015	19:32	EAM
ZN10	1.000	IIA08A	1/8/2015	19:37	EAM
RINSE	1.000	IIA08A	1/8/2015	19:42	EAM

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
CCV	1.000	IIA08A	1/8/2015	19:47	EAM
CCB	1.000	IIA08A	1/8/2015	19:52	EAM
PQL	1.000	IIA08A	1/8/2015	19:57	EAM
ICSA	1.000	IIA08A	1/8/2015	20:02	EAM
ICSAB	1.000	IIA08A	1/8/2015	20:07	EAM
CCV	1.000	IIA08A	1/8/2015	20:12	EAM
CCB	1.000	IIA08A	1/8/2015	20:17	EAM

Intensity Report

Author:

Published: 1/9/2015 9:51:12AM

Notes:

Blank

Method Name: K6010-2011 Method Revision: 1,614

Analyst Name: EAM

Acquire Date: 1/8/2015 11:57:50AM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.00002500	Cts/S	0.000002000	7.476	-9.125
Al3961_R		-0.0002420	Cts/S	0.0001650	68.28	-3.620
As1891_A		0.00003100	Cts/S	0.000005000	17.70	0.3511
Au2427_A		-0.0005320	Cts/S	0.00006200	11.67	-6.100
B_2089_A		0.0001220	Cts/S	0.00004100	33.40	1.405
Ba4554_R		0.001433	Cts/S	0.0005820	40.64	21.48
Be3130_R		-0.0004620	Cts/S	0.0002580	55.82	-6.965
Ca3158_R		-0.0009730	Cts/S	0.0002650	27.22	-14.60
Cd2265_A		-0.0001420	Cts/S	0.00003500	24.78	-1.627
Co2286_A		0.0005960	Cts/S	0.00002400	4.051	6.840
Cr2677_A		0.00001800	Cts/S	0.000003000	15.85	6.555
Cu3273_A		-0.0001210	Cts/S	0.00003100	25.53	-44.28
Fe2599_R		0.0006300	Cts/S	0.0002160	34.27	9.485
K_7664_R		0.0005870	Cts/S	0.0001730	29.51	8.806
Li6707_R		-0.0009230	Cts/S	0.001005	108.9	-13.94
Mg2025_A		-0.0005540	Cts/S	0.00004800	8.609	-6.356
Mn2576_R		-0.00009900	Cts/S	0.0002450	247.9	-1.465
Mo2020_A		0.0001410	Cts/S	0.000002000	1.620	1.623
Na5895_R		-0.003689	Cts/S	0.0001420	3.862	-55.41
Ni2316_A		-0.0001230	Cts/S	0.000008000	6.708	-1.416
Pb2203_A		-0.0003550	Cts/S	0.00007400	20.74	-4.071
Sb2068_A		0.0001850	Cts/S	0.000008000	4.243	2.121
Se1960_A		0.00009500	Cts/S	0.00001500	15.42	1.095
Si2516_R		0.0003730	Cts/S	0.0001000	26.92	5.588
Sn1899_A		0.00007700	Cts/S	0.000005000	7.149	0.8797
Sr4215_R		-0.001391	Cts/S	0.0006200	44.60	-20.94
Ti3349_A		-0.00008200	Cts/S	0.00001500	18.85	-29.88
Tl1908_A		-0.0001330	Cts/S	0.000003000	1.927	-1.526
V_2924_A		-0.00003100	Cts/S	0.00001000	30.64	-11.45
Zn2062_A		0.00004300	Cts/S	0.00001800	42.00	0.4905
Y_3600_R		15,021	Cts/S	150.37	1.0011	15,021
Y_2243_A		11,475	Cts/S	9.1076	0.079370	11,475
Y_3600_A		365,980	Cts/S	3,849.2	1.0518	365,980

Std 1

Method Name: K6010-2011 Method Revision: 1,614

Analyst Name: EAM

Acquire Date: 1/8/2015 12:02:56PM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.09941	Cts/S	0.001208	1.215	34,660
Al3961_R		0.8878	Cts/S	0.005503	0.6199	12,910
As1891_A		0.02437	Cts/S	0.00003000	0.1230	272.0
Au2427_A		0.4474	Cts/S	0.01007	2.252	4,993
B_2089_A		0.09214	Cts/S	0.00006200	0.06751	1,028
Ba4554_R		2.501	Cts/S	0.01404	0.5613	36,380
Be3130_R		3.844	Cts/S	0.03597	0.9358	55,910
Ca3158_R		1.309	Cts/S	0.009270	0.7081	19,040
Cd2265_A		1.675	Cts/S	0.0008680	0.05180	18,690
Co2286_A		0.3993	Cts/S	0.0007620	0.1907	4,455
Cr2677_A		0.06118	Cts/S	0.0007990	1.306	21,330
Cu3273_A		0.06443	Cts/S	0.0008330	1.293	22,460
Fe2599_R		1.545	Cts/S	0.01133	0.7334	22,470

Std 1

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:02:56PM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
K_7664_R		1.098	Cts/S	0.005865	0.5342	15,970
Li6707_R		0.6539	Cts/S	0.003418	0.5227	9,510
Mg2025_A		0.4058	Cts/S	0.0006770	0.1668	4,528
Mn2576_R		0.3278	Cts/S	0.001053	0.3212	4,768
Mo2020_A		0.1741	Cts/S	0.0009470	0.5437	1,943
Na5895_R		2.623	Cts/S	0.005912	0.2254	38,150
Ni2316_A		0.2461	Cts/S	0.0002350	0.09534	2,746
Pb2203_A		0.1136	Cts/S	0.0002280	0.2007	1,267
Sb2068_A		0.03167	Cts/S	0.00004200	0.1320	353.4
Se1960_A		0.01640	Cts/S	0.00008700	0.5316	183.0
Si2516_R		0.3935	Cts/S	0.001280	0.3253	5,723
Sn1899_A		0.04049	Cts/S	0.00009200	0.2270	451.8
Sr4215_R		3.327	Cts/S	0.01546	0.4646	48,390
Ti3349_A		0.1268	Cts/S	0.001836	1.449	44,190
Tl1908_A		0.03627	Cts/S	0.00005900	0.1638	404.7
V_2924_A		0.06399	Cts/S	0.0006650	1.039	22,310
Zn2062_A		0.2628	Cts/S	0.0007900	0.3006	2,932
Y_3600_R		14,544	Cts/S	41.577	0.28587	14,544
Y_2243_A		11,158	Cts/S	6.9408	0.062204	11,158
Y_3600_A		348,680	Cts/S	3,698.6	1.0607	348,680

ICV

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:07:50PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		412.8	ug/L	0.6886	0.1668	14,570
Al3961_R		10,030	ug/L	54.10	0.5393	5,308
As1891_A		400.0	ug/L	1.648	0.4119	111.1
Au2427_A		392.1	ug/L	8.889	2.267	1,991
B_2089_A		410.9	ug/L	0.8150	0.1984	431.5
Ba4554_R		409.0	ug/L	3.981	0.9733	15,260
Be3130_R		410.2	ug/L	2.851	0.6949	23,500
Ca3158_R		10,130	ug/L	77.56	0.7657	7,898
Cd2265_A		412.0	ug/L	2.087	0.5066	7,846
Co2286_A		412.6	ug/L	2.279	0.5523	1,877
Cr2677_A		412.3	ug/L	1.061	0.2573	8,962
Cu3273_A		408.3	ug/L	0.5820	0.1426	9,316
Fe2599_R		9,926	ug/L	56.49	0.5691	9,151
K_7664_R		13,550	ug/L	163.6	1.207	8,875
Li6707_R		407.5	ug/L	8.856	2.173	3,964
Mg2025_A		10,280	ug/L	50.10	0.4872	1,895
Mn2576_R		410.4	ug/L	3.041	0.7411	2,005
Mo2020_A		418.1	ug/L	0.6463	0.1546	828.7
Na5895_R		10,110	ug/L	115.1	1.139	15,770
Ni2316_A		418.9	ug/L	2.000	0.4773	1,171
Pb2203_A		420.4	ug/L	3.672	0.8736	540.7
Sb2068_A		407.2	ug/L	2.470	0.6067	147.9
Se1960_A		405.2	ug/L	1.262	0.3116	76.23
Si2516_R		9,988	ug/L	59.77	0.5984	2,347
Sn1899_A		403.3	ug/L	2.732	0.6774	186.2
Sr4215_R		414.2	ug/L	4.777	1.153	20,530
Ti3349_A		411.1	ug/L	0.2312	0.05624	18,490
Tl1908_A	W	426.2	ug/L	3.994	0.9371	175.0
V_2924_A		416.0	ug/L	1.074	0.2581	9,447
Zn2062_A		410.8	ug/L	2.967	0.7221	1,228
Y_3600_R		14,907	Cts/S	17.765	0.11918	14,907

ICV

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:07:50PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Y_2243_A		11,371	Cts/S	25.580	0.22496	11,371
Y_3600_A		355,150	Cts/S	230.83	0.064994	355,150

ICB

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:14:48PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.3594	ug/L	0.1375	38.26	4.025
Al3961_R		-6.196	ug/L	10.36	167.3	-6.851
As1891_A		-0.9479	ug/L	1.012	106.8	0.08872
Au2427_A		0.08473	ug/L	0.3939	464.9	-5.700
B_2089_A		0.6555	ug/L	0.3225	49.20	2.160
Ba4554_R		0.1872	ug/L	0.1237	66.07	28.22
Be3130_R		0.02526	ug/L	0.01645	65.13	-5.435
Ca3158_R		-2.411	ug/L	1.806	74.93	-16.31
Cd2265_A		-0.006832	ug/L	0.05567	814.8	-1.771
Co2286_A		0.03365	ug/L	0.1456	432.8	7.038
Cr2677_A		0.1653	ug/L	0.1051	63.57	10.15
Cu3273_A		-0.4776	ug/L	0.2295	48.06	-55.06
Fe2599_R		-3.809	ug/L	0.9869	25.91	5.851
K_7664_R		4.495	ug/L	70.43	1,567	11.28
Li6707_R		-2.604	ug/L	0.5497	21.11	-38.93
Mg2025_A		-0.6481	ug/L	1.732	267.2	-6.502
Mn2576_R		0.1271	ug/L	0.1386	109.1	-0.8418
Mo2020_A		2.309	ug/L	0.3144	13.62	6.268
Na5895_R		4.614	ug/L	9.375	203.2	-47.63
Ni2316_A		0.08640	ug/L	0.2799	323.9	-1.172
Pb2203_A		0.1656	ug/L	0.4402	265.8	-3.877
Sb2068_A		-1.968	ug/L	0.9380	47.66	1.413
Se1960_A		0.7183	ug/L	1.231	171.3	1.236
Si2516_R		5.326	ug/L	2.128	39.96	6.767
Sn1899_A		0.1655	ug/L	0.1229	74.26	0.9622
Sr4215_R		-0.06578	ug/L	0.03292	50.04	-23.88
Ti3349_A		0.2799	ug/L	0.1141	40.75	-16.59
Tl1908_A		-0.6528	ug/L	0.1251	19.16	-1.812
V_2924_A		-0.02855	ug/L	0.1661	581.7	-12.34
Zn2062_A		0.01140	ug/L	0.1307	1,147	0.5281
Y_3600_R		14,829	Cts/S	226.38	1.5266	14,829
Y_2243_A		11,543	Cts/S	32.884	0.28489	11,543
Y_3600_A		362,260	Cts/S	638.42	0.17623	362,260

PQL

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:19:56PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		10.89	ug/L	0.1793	1.646	386.2
Al3961_R		306.0	ug/L	10.88	3.555	157.2
As1891_A		7.867	ug/L	0.7501	9.534	2.572
Au2427_A		96.09	ug/L	3.720	3.872	490.2
B_2089_A		49.97	ug/L	0.5146	1.030	53.32
Ba4554_R		5.293	ug/L	0.3489	6.591	217.0
Be3130_R		4.958	ug/L	0.06220	1.254	274.9
Ca3158_R		98.65	ug/L	4.077	4.133	62.10
Cd2265_A		4.992	ug/L	0.06438	1.290	94.91
Co2286_A		10.13	ug/L	0.08422	0.8310	53.62

PQL

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:19:56PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Cr2677_A		10.22	ug/L	0.1566	1.533	233.7
Cu3273_A		25.73	ug/L	0.2500	0.9714	560.1
Fe2599_R		94.42	ug/L	0.1887	0.1999	95.68
K_7664_R		994.1	ug/L	31.58	3.176	654.5
Li6707_R		100.2	ug/L	1.761	1.758	957.5
Mg2025_A		106.4	ug/L	1.027	0.9647	13.85
Mn2576_R		5.472	ug/L	0.02759	0.5041	25.09
Mo2020_A		10.58	ug/L	0.1168	1.104	22.88
Na5895_R		1,047	ug/L	2.466	0.2356	1,573
Ni2316_A		10.58	ug/L	0.1405	1.328	28.67
Pb2203_A		5.390	ug/L	0.7009	13.00	2.965
Sb2068_A	F	5.555	ug/L	0.9802	17.65	3.830
Se1960_A		9.322	ug/L	0.8603	9.229	2.858
Si2516_R		203.8	ug/L	3.866	1.897	52.97
Sn1899_A		103.6	ug/L	0.2813	0.2716	49.24
Sr4215_R		10.42	ug/L	0.2314	2.220	492.9
Ti3349_A		15.03	ug/L	0.02216	0.1474	663.5
Tl1908_A		15.91	ug/L	0.1417	0.8905	5.184
V_2924_A		10.19	ug/L	0.1052	1.032	226.0
Zn2062_A		19.94	ug/L	0.2526	1.267	61.03
Y_3600_R		14,802	Cts/S	141.44	0.95554	14,802
Y_2243_A		11,550	Cts/S	5.9129	0.051192	11,550
Y_3600_A		363,670	Cts/S	2,561.7	0.70441	363,670

LRS1

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:27:01PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	W	2,109	ug/L	1.671	0.07924	74,220
Al3961_R		29.13	ug/L	11.63	39.93	96.50
As1891_A		20,890	ug/L	62.57	0.2995	5,565
Au2427_A	W	21,650	ug/L	4.021	0.01858	105,600
B_2089_A		21,020	ug/L	33.84	0.1610	20,680
Ba4554_R		20,100	ug/L	492.7	2.451	763,800
Be3130_R		19,740	ug/L	180.2	0.9129	1,154,000
Ca3158_R		-0.2135	ug/L	2.073	971.1	-1.074
Cd2265_A		19,400	ug/L	15.35	0.07910	354,600
Co2286_A		20,660	ug/L	18.68	0.09041	89,990
Cr2677_A		19,700	ug/L	22.08	0.1121	424,900
Cu3273_A		21,010	ug/L	272.3	1.296	478,200
Fe2599_R		-12.43	ug/L	2.462	19.81	-2.097
K_7664_R		9.701	ug/L	19.30	198.9	15.43
Li6707_R		19,870	ug/L	204.0	1.027	197,800
Mg2025_A		-1,373	ug/L	10.92	0.7952	514.6
Mn2576_R		20,230	ug/L	165.9	0.8203	100,800
Mo2020_A		5,227	ug/L	21.76	0.4164	9,934
Na5895_R		37.55	ug/L	1.603	4.268	3.885
Ni2316_A		20,920	ug/L	18.83	0.09001	56,290
Pb2203_A		21,030	ug/L	1.521	0.007234	26,250
Sb2068_A	W	21,100	ug/L	55.76	0.2643	7,256
Se1960_A	W	21,680	ug/L	64.57	0.2978	3,862
Si2516_R		138.4	ug/L	6.465	4.670	55.60
Sn1899_A		20,370	ug/L	3.648	0.01791	8,996
Sr4215_R		20,260	ug/L	501.5	2.475	1,025,000
Ti3349_A		19,900	ug/L	145.5	0.7310	889,700
Tl1908_A		20,620	ug/L	15.81	0.07667	8,205

LRS1

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:27:01PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
V_2924_A		20,200	ug/L	145.6	0.7209	458,100
Zn2062_A		19,430	ug/L	39.64	0.2040	55,780
Y_3600_R		15,204	Cts/S	71.934	0.47313	15,204
Y_2243_A		10,926	Cts/S	16.920	0.15487	10,926
Y_3600_A		352,760	Cts/S	286.80	0.081302	352,760

LRS2

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:32:26PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		1.939	ug/L	0.5453	28.12	-1,719
Al3961_R		486,300	ug/L	1,625	0.3341	256,500
As1891_A		25.38	ug/L	1.116	4.397	0.5699
Au2427_A		8.726	ug/L	0.1397	1.600	183.4
B_2089_A		13.27	ug/L	0.7379	5.563	13.86
Ba4554_R		20.40	ug/L	0.6309	3.093	779.2
Be3130_R		6.009	ug/L	0.3939	6.555	335.6
Ca3158_R	W	470,200	ug/L	14,700	3.125	366,200
Cd2265_A		4.274	ug/L	0.2268	5.306	321.8
Co2286_A		2.094	ug/L	0.4880	23.31	14.63
Cr2677_A		2.376	ug/L	0.7673	32.30	86.20
Cu3273_A		2.899	ug/L	0.8276	28.55	100.2
Fe2599_R	W	231,800	ug/L	886.4	0.3825	212,900
K_7664_R		286,000	ug/L	1,599	0.5589	186,600
Li6707_R		17.03	ug/L	2.316	13.60	152.0
Mg2025_A		192,600	ug/L	783.8	0.4069	31,690
Mn2576_R		13.14	ug/L	0.7103	5.404	75.62
Mo2020_A		18.47	ug/L	3.887	21.05	34.28
Na5895_R	W	187,600	ug/L	435.8	0.2323	292,900
Ni2316_A		4.942	ug/L	0.1645	3.327	-11.19
Pb2203_A		4.066	ug/L	2.192	53.90	-64.44
Sb2068_A		7.520	ug/L	1.447	19.24	12.18
Se1960_A		22.45	ug/L	10.74	47.84	6.511
Si2516_R		49,140	ug/L	98.69	0.2008	11,490
Sn1899_A		8.415	ug/L	1.635	19.43	4.259
Sr4215_R		13.03	ug/L	0.6922	5.314	623.8
Ti3349_A		27.07	ug/L	1.092	4.035	1,079
Tl1908_A		2.136	ug/L	1.086	50.83	-0.8578
V_2924_A		4.599	ug/L	0.5804	12.62	185.4
Zn2062_A		9.310	ug/L	0.001405	0.01509	25.45
Y_3600_R		14,865	Cts/S	34.042	0.22901	14,865
Y_2243_A		10,218	Cts/S	15.543	0.15211	10,218
Y_3600_A		322,070	Cts/S	3,106.8	0.96463	322,070

ICSA

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:41:44PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		1.476	ug/L	0.04277	2.897	-1,311
Al3961_R		477,100	ug/L	1,531	0.3209	251,300
As1891_A		3.844	ug/L	2.149	55.89	-3.002
Au2427_A		-1.084	ug/L	0.9985	92.15	102.8
B_2089_A		5.898	ug/L	0.5113	8.668	6.729
Ba4554_R		-0.1235	ug/L	0.1160	93.91	16.69
Be3130_R		0.06113	ug/L	0.06139	100.4	-3.510

ICSA

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:41:44PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ca3158_R		448,100	ug/L	2,734	0.6100	348,600
Cd2265_A		2.019	ug/L	0.1093	5.412	223.4
Co2286_A		-0.2878	ug/L	0.3399	118.1	4.774
Cr2677_A		-0.2082	ug/L	0.3032	145.6	27.25
Cu3273_A		-2.852	ug/L	0.2837	9.950	-13.88
Fe2599_R		175,600	ug/L	1,489	0.8481	161,000
K_7664_R		232.8	ug/L	36.47	15.66	160.4
Li6707_R		6.344	ug/L	1.235	19.46	47.98
Mg2025_A		458,300	ug/L	105.1	0.02293	75,710
Mn2576_R		-0.8925	ug/L	0.9797	109.8	3.310
Mo2020_A		2.381	ug/L	0.1753	7.362	5.701
Na5895_R		109.0	ug/L	3.714	3.406	115.3
Ni2316_A		1.047	ug/L	0.3603	34.41	-15.65
Pb2203_A		0.2744	ug/L	2.373	865.0	-69.02
Sb2068_A		0.01117	ug/L	1.636	14,640	8.779
Se1960_A		4.867	ug/L	3.608	74.14	3.578
Si2516_R		-0.7694	ug/L	13.88	1,804	5.024
Sn1899_A		3.830	ug/L	0.04033	1.053	2.374
Sr4215_R	W	4.859	ug/L	0.1495	3.076	219.5
Ti3349_A		3.384	ug/L	0.06406	1.893	112.6
Tl1908_A		-0.2928	ug/L	0.6883	235.1	-1.767
V_2924_A		-0.2839	ug/L	0.06175	21.75	61.31
Zn2062_A		1.500	ug/L	0.1771	11.80	4.488
Y_3600_R		14,846	Cts/S	22.762	0.15332	14,846
Y_2243_A		10,258	Cts/S	1.5707	0.015311	10,258
Y_3600_A		324,000	Cts/S	750.03	0.23149	324,000

ICSAB

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:46:41PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		222.8	ug/L	1.135	0.5095	5,811
Al3961_R		481,800	ug/L	13,420	2.786	251,300
As1891_A		108.8	ug/L	0.3122	0.2869	23.31
Au2427_A		532.3	ug/L	7.508	1.410	2,525
B_2089_A		507.7	ug/L	0.3620	0.07130	476.0
Ba4554_R		523.3	ug/L	3.683	0.7038	19,250
Be3130_R		505.7	ug/L	4.849	0.9589	28,580
Ca3158_R		464,200	ug/L	6,249	1.346	357,600
Cd2265_A		962.9	ug/L	0.01233	0.001280	16,570
Co2286_A		475.4	ug/L	0.6409	0.1348	1,934
Cr2677_A		494.9	ug/L	0.7989	0.1614	9,777
Cu3273_A		533.2	ug/L	0.1872	0.03511	11,130
Fe2599_R		177,100	ug/L	2,447	1.382	160,900
K_7664_R		21,460	ug/L	226.2	1.054	13,860
Li6707_R		562.7	ug/L	2.211	0.3930	5,403
Mg2025_A		464,300	ug/L	166.4	0.03584	76,080
Mn2576_R		484.9	ug/L	4.582	0.9450	2,344
Mo2020_A		491.0	ug/L	4.017	0.8181	870.3
Na5895_R		21,720	ug/L	149.5	0.6882	33,490
Ni2316_A		951.1	ug/L	0.3978	0.04183	2,365
Pb2203_A		47.05	ug/L	0.6382	1.357	-14.96
Sb2068_A		631.4	ug/L	3.106	0.4919	210.8
Se1960_A		52.62	ug/L	0.6749	1.283	11.51
Si2516_R		1,986	ug/L	34.64	1.744	465.3
Sn1899_A		468.4	ug/L	0.5232	0.1117	193.3

ICSAB

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:46:41PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Sr4215_R		525.0	ug/L	4.241	0.8078	25,670
Ti3349_A		497.5	ug/L	1.904	0.3827	20,290
Tl1908_A		93.45	ug/L	1.546	1.654	31.30
V_2924_A		505.3	ug/L	2.026	0.4009	10,480
Zn2062_A		939.3	ug/L	0.02274	0.002421	2,512
Y_3600_R		14,704	Cts/S	238.58	1.6226	14,704
Y_2243_A		10,172	Cts/S	6.4106	0.063022	10,172
Y_3600_A		322,010	Cts/S	314.38	0.097631	322,010

CCV

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:53:32PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		492.4	ug/L	3.569	0.7249	17,970
Al3961_R		11,890	ug/L	86.96	0.7315	6,511
As1891_A		490.9	ug/L	2.215	0.4513	136.9
Au2427_A		491.5	ug/L	11.11	2.260	2,509
B_2089_A		499.2	ug/L	0.3591	0.07195	526.0
Ba4554_R		491.9	ug/L	2.988	0.6075	18,990
Be3130_R		484.5	ug/L	3.603	0.7436	28,730
Ca3158_R		12,320	ug/L	60.17	0.4886	9,941
Cd2265_A		493.1	ug/L	0.3574	0.07248	9,433
Co2286_A		498.6	ug/L	0.002959	0.0005940	2,277
Cr2677_A		490.1	ug/L	2.620	0.5347	11,010
Cu3273_A		495.3	ug/L	3.867	0.7807	11,690
Fe2599_R		12,020	ug/L	102.3	0.8509	11,470
K_7664_R		12,100	ug/L	40.72	0.3365	8,203
Li6707_R		496.1	ug/L	4.187	0.8440	4,997
Mg2025_A		12,730	ug/L	10.61	0.08332	2,357
Mn2576_R		486.5	ug/L	3.343	0.6871	2,460
Mo2020_A		498.7	ug/L	3.195	0.6406	992.6
Na5895_R		12,450	ug/L	34.87	0.2802	20,120
Ni2316_A		502.9	ug/L	0.7516	0.1495	1,413
Pb2203_A		496.6	ug/L	0.6877	0.1385	642.3
Sb2068_A		497.9	ug/L	0.02638	0.005299	181.2
Se1960_A		487.8	ug/L	4.278	0.8771	91.96
Si2516_R		12,080	ug/L	106.6	0.8828	2,936
Sn1899_A		494.4	ug/L	1.087	0.2199	229.1
Sr4215_R		495.7	ug/L	4.446	0.8968	25,430
Ti3349_A		483.5	ug/L	4.406	0.9114	22,480
Tl1908_A		505.7	ug/L	0.8564	0.1694	208.9
V_2924_A		484.3	ug/L	2.936	0.6062	11,370
Zn2062_A		486.3	ug/L	0.6454	0.1327	1,460
Y_3600_R		15,427	Cts/S	87.447	0.56686	15,427
Y_2243_A		11,422	Cts/S	7.7195	0.067583	11,422
Y_3600_A		367,130	Cts/S	2,486.0	0.67714	367,130

CCB

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:58:28PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1557	ug/L	0.3084	198.1	-3.488
Al3961_R		1.704	ug/L	11.03	647.5	-2.776
As1891_A		2.351	ug/L	1.058	44.99	1.020
Au2427_A		0.6636	ug/L	0.01209	1.821	-2.725

CCB

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 12:58:28PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
B_2089_A		4.861	ug/L	0.3052	6.279	6.576
Ba4554_R		-0.2670	ug/L	0.1991	74.59	11.92
Be3130_R		-0.07553	ug/L	0.02560	33.89	-11.80
Ca3158_R		-1.858	ug/L	0.3548	19.10	-16.69
Cd2265_A		0.1250	ug/L	0.008623	6.897	0.7794
Co2286_A		-0.1524	ug/L	0.1731	113.6	6.214
Cr2677_A		0.007799	ug/L	0.06110	783.5	6.985
Cu3273_A		-0.07807	ug/L	0.2824	361.7	-47.89
Fe2599_R		-0.4525	ug/L	0.7938	175.4	9.397
K_7664_R		11.69	ug/L	20.77	177.7	17.12
Li6707_R		-0.3392	ug/L	1.021	301.1	-17.83
Mg2025_A		18.94	ug/L	5.927	31.30	-2.866
Mn2576_R		0.6492	ug/L	0.2511	38.68	1.775
Mo2020_A		4.243	ug/L	0.4880	11.50	10.18
Na5895_R		12.01	ug/L	2.591	21.56	-37.86
Ni2316_A		0.1949	ug/L	0.06815	34.97	-0.8626
Pb2203_A		0.05644	ug/L	0.4856	860.4	-4.035
Sb2068_A		-2.065	ug/L	0.1287	6.230	1.379
Se1960_A		2.598	ug/L	1.951	75.11	1.595
Si2516_R		3.707	ug/L	11.07	298.6	6.736
Sn1899_A		0.1596	ug/L	0.3285	205.8	0.9622
Sr4215_R		0.2599	ug/L	0.05672	21.82	-8.207
Ti3349_A		1.185	ug/L	0.09754	8.233	26.23
Tl1908_A		0.05763	ug/L	1.360	2,360	-1.516
V_2924_A		0.007407	ug/L	0.2136	2,884	-12.26
Zn2062_A		0.03460	ug/L	0.1331	384.7	0.6006
Y_3600_R		15,595	Cts/S	88.665	0.56854	15,595
Y_2243_A		11,575	Cts/S	21.568	0.18633	11,575
Y_3600_A		379,090	Cts/S	4,184.2	1.1038	379,090

TH0811-005

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:03:37PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.08754	ug/L	0.2051	234.3	-6.700
Al3961_R		77.30	ug/L	26.05	33.69	44.29
As1891_A		19.57	ug/L	1.405	7.178	5.259
Au2427_A		0.2434	ug/L	0.9261	380.4	-8.513
B_2089_A		54.66	ug/L	0.03743	0.06848	52.20
Ba4554_R		31.21	ug/L	0.5275	1.690	1,191
Be3130_R		-0.06167	ug/L	0.01134	18.39	-10.58
Ca3158_R	W	34,110	ug/L	65.11	0.1909	26,780
Cd2265_A		0.004981	ug/L	0.006366	127.8	-1.195
Co2286_A		0.3257	ug/L	0.1692	51.96	7.551
Cr2677_A		0.5423	ug/L	0.08019	14.79	17.81
Cu3273_A		1.178	ug/L	0.6672	56.65	-14.84
Fe2599_R		175.0	ug/L	2.712	1.549	171.6
K_7664_R		4,262	ug/L	5.311	0.1246	2,813
Li6707_R		5.043	ug/L	0.04344	0.8613	35.66
Mg2025_A		10,820	ug/L	13.61	0.1258	1,801
Mn2576_R		483.1	ug/L	0.6074	0.1257	2,372
Mo2020_A		10.06	ug/L	0.1410	1.402	19.61
Na5895_R	F	547,500	ug/L	6,598	1.205	862,100
Ni2316_A		3.023	ug/L	0.08465	2.800	6.443
Pb2203_A		0.1991	ug/L	0.4462	224.1	-3.456
Sb2068_A		-1.964	ug/L	0.3180	16.19	1.265

TH0811-005

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:03:37PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Se1960_A		0.6850	ug/L	1.542	225.2	1.145
Si2516_R		5,874	ug/L	15.13	0.2576	1,390
Sn1899_A		0.04722	ug/L	0.2882	610.3	0.8147
Sr4215_R		247.1	ug/L	0.7581	0.3068	12,310
Ti3349_A		2.389	ug/L	0.2171	9.090	72.80
Tl1908_A		0.7394	ug/L	0.1664	22.50	-1.509
V_2924_A		1.962	ug/L	0.1893	9.648	26.72
Zn2062_A		26.08	ug/L	0.05114	0.1961	71.56
Y_3600_R		14,990	Cts/S	30.073	0.20063	14,990
Y_2243_A		10,369	Cts/S	7.5399	0.072714	10,369
Y_3600_A		327,090	Cts/S	2,964.2	0.90621	327,090

PBWIA07ICW2

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:08:28PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2496	ug/L	0.02838	11.37	0.02500
Al3961_R		-1.610	ug/L	11.21	696.1	-4.646
As1891_A		0.1211	ug/L	0.6980	576.5	0.3936
Au2427_A		0.3465	ug/L	0.6201	179.0	-4.413
B_2089_A		3.857	ug/L	0.05471	1.418	5.505
Ba4554_R		-0.2127	ug/L	0.05614	26.39	14.10
Be3130_R		0.02799	ug/L	0.02821	100.8	-5.556
Ca3158_R		9.362	ug/L	2.873	30.68	-7.550
Cd2265_A		0.03559	ug/L	0.009174	25.78	-0.9633
Co2286_A		-0.2565	ug/L	0.09564	37.29	5.785
Cr2677_A		0.09102	ug/L	0.1809	198.7	8.941
Cu3273_A		-0.002183	ug/L	0.1434	6,570	-46.14
Fe2599_R		-0.7572	ug/L	2.291	302.5	9.133
K_7664_R		28.69	ug/L	19.27	67.17	28.87
Li6707_R		0.9044	ug/L	0.5550	61.37	-5.168
Mg2025_A		17.66	ug/L	0.8488	4.808	-3.157
Mn2576_R		0.8181	ug/L	0.2309	28.23	2.652
Mo2020_A		1.240	ug/L	0.2786	22.47	4.179
Na5895_R		230.2	ug/L	21.11	9.172	320.7
Ni2316_A		0.2758	ug/L	0.2157	78.21	-0.6457
Pb2203_A		0.1589	ug/L	0.8341	524.8	-3.938
Sb2068_A		-2.885	ug/L	0.6807	23.59	1.095
Se1960_A		0.7596	ug/L	1.359	179.0	1.261
Si2516_R		11.91	ug/L	23.77	199.6	8.766
Sn1899_A		-0.2778	ug/L	0.4931	177.5	0.7660
Sr4215_R		0.07302	ug/L	0.2818	385.9	-17.98
Ti3349_A		0.2034	ug/L	0.1180	58.03	-21.16
Tl1908_A		0.2386	ug/L	0.06325	26.51	-1.454
V_2924_A		-0.1442	ug/L	0.1453	100.8	-15.63
Zn2062_A		0.7684	ug/L	0.03382	4.402	2.865
Y_3600_R		15,645	Cts/S	38.630	0.24692	15,645
Y_2243_A		11,702	Cts/S	28.666	0.24496	11,702
Y_3600_A		380,410	Cts/S	661.65	0.17393	380,410

LCSWIA07ICW2

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:13:35PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		51.35	ug/L	0.2818	0.5488	1,870

LCSWIA07ICW2

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:13:35PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Al3961_R		2,007	ug/L	6.306	0.3142	1,112
As1891_A		96.38	ug/L	1.481	1.537	27.40
Au2427_A		0.5490	ug/L	0.4721	85.99	-7.519
B_2089_A		488.5	ug/L	1.370	0.2806	506.4
Ba4554_R		2,039	ug/L	16.05	0.7868	79,740
Be3130_R		51.02	ug/L	0.03111	0.06098	3,044
Ca3158_R		2,481	ug/L	15.92	0.6416	2,018
Cd2265_A		246.3	ug/L	0.3966	0.1610	4,737
Co2286_A		515.4	ug/L	1.069	0.2075	2,370
Cr2677_A		203.7	ug/L	0.2002	0.09831	4,596
Cu3273_A		257.2	ug/L	1.433	0.5571	6,069
Fe2599_R		991.7	ug/L	7.603	0.7667	968.0
K_7664_R		9,650	ug/L	16.08	0.1666	6,633
Li6707_R		496.9	ug/L	6.254	1.259	5,074
Mg2025_A		5,054	ug/L	5.431	0.1075	949.5
Mn2576_R		507.6	ug/L	3.067	0.6043	2,601
Mo2020_A		97.96	ug/L	0.8069	0.8237	197.5
Na5895_R		7,548	ug/L	32.97	0.4368	12,340
Ni2316_A		524.8	ug/L	0.5442	0.1037	1,485
Pb2203_A		100.8	ug/L	0.9393	0.9316	128.2
Sb2068_A		98.25	ug/L	1.400	1.425	36.18
Se1960_A		100.2	ug/L	4.882	4.871	19.92
Si2516_R		951.5	ug/L	8.975	0.9433	240.0
Sn1899_A		496.2	ug/L	0.4320	0.08706	231.5
Sr4215_R		498.5	ug/L	3.437	0.6895	25,930
Ti3349_A		481.6	ug/L	0.4751	0.09864	22,450
Tl1908_A		102.9	ug/L	0.6242	0.6068	39.70
V_2924_A		512.2	ug/L	1.268	0.2476	12,150
Zn2062_A		499.6	ug/L	0.6056	0.1212	1,511
Y_3600_R		15,637	Cts/S	212.06	1.3561	15,637
Y_2243_A		11,499	Cts/S	11.187	0.097282	11,499
Y_3600_A		368,370	Cts/S	1,309.7	0.35556	368,370

PBT1222A

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:18:35PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.3838	ug/L	0.3846	100.2	4.625
Al3961_R		-7.839	ug/L	10.34	131.9	-7.811
As1891_A		0.01274	ug/L	0.2385	1,873	0.3336
Au2427_A		0.1705	ug/L	0.3121	183.0	-4.925
B_2089_A		7.341	ug/L	0.1247	1.698	8.421
Ba4554_R	F	14.08	ug/L	0.06524	0.4634	554.5
Be3130_R		-0.01997	ug/L	0.01816	90.94	-8.190
Ca3158_R		98.86	ug/L	0.3142	0.3178	63.70
Cd2265_A		0.01560	ug/L	0.02139	137.1	-1.250
Co2286_A		-0.1441	ug/L	0.1295	89.88	5.813
Cr2677_A		0.2667	ug/L	0.07025	26.34	11.72
Cu3273_A		0.7965	ug/L	0.4175	52.42	-23.86
Fe2599_R		-0.9586	ug/L	1.104	115.2	8.651
K_7664_R		91.15	ug/L	15.36	16.85	69.50
Li6707_R		0.5925	ug/L	0.2504	42.27	-8.091
Mg2025_A		4.889	ug/L	3.083	63.07	-5.115
Mn2576_R		1.828	ug/L	0.5909	32.32	7.591
Mo2020_A		1.132	ug/L	0.09498	8.394	3.645
Na5895_R	F	312,600	ug/L	5,628	1.800	497,200

PBT1222A

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:18:35PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ni2316_A		1.441	ug/L	0.05442	3.775	2.496
Pb2203_A		1.236	ug/L	2.267	183.5	-2.296
Sb2068_A		-2.662	ug/L	0.4956	18.61	1.074
Se1960_A		1.192	ug/L	0.2047	17.18	1.237
Si2516_R		13.04	ug/L	3.797	29.12	8.742
Sn1899_A		2.563	ug/L	0.07903	3.084	1.942
Sr4215_R		2.013	ug/L	0.008975	0.4459	80.39
Ti3349_A		0.7169	ug/L	0.05406	7.540	3.225
Tl1908_A		-0.8571	ug/L	0.9034	105.4	-1.773
V_2924_A		-0.1892	ug/L	0.05026	26.57	-15.05
Zn2062_A		9.421	ug/L	0.2206	2.342	27.16
Y_3600_R		15,140	Cts/S	117.58	0.77661	15,140
Y_2243_A		10,774	Cts/S	25.168	0.23361	10,774
Y_3600_A		342,230	Cts/S	684.70	0.20007	342,230

SI0027-001T

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:23:30PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1961	ug/L	0.02701	13.77	-2.275
Al3961_R		84.32	ug/L	17.38	20.62	43.04
As1891_A		2.328	ug/L	0.9738	41.84	0.9462
Au2427_A		-0.6488	ug/L	0.7156	110.3	-12.81
B_2089_A		13.01	ug/L	0.3435	2.640	13.97
Ba4554_R		67.06	ug/L	0.4695	0.7002	2,603
Be3130_R		0.08963	ug/L	0.003481	3.884	-1.863
Ca3158_R		3,298	ug/L	33.10	1.004	2,646
Cd2265_A		0.2339	ug/L	0.003737	1.598	2.768
Co2286_A		1.443	ug/L	0.03463	2.400	12.71
Cr2677_A		3.488	ug/L	0.2045	5.864	79.80
Cu3273_A		1.288	ug/L	0.2764	21.46	-12.95
Fe2599_R		55.96	ug/L	5.148	9.200	62.93
K_7664_R		410.6	ug/L	15.47	3.767	286.5
Li6707_R		0.6416	ug/L	0.3442	53.64	-7.759
Mg2025_A		210.8	ug/L	1.792	0.8500	30.90
Mn2576_R		427.8	ug/L	4.174	0.9758	2,158
Mo2020_A		0.8108	ug/L	0.01956	2.412	3.071
Na5895_R	F	277,300	ug/L	5,884	2.122	448,600
Ni2316_A		2.586	ug/L	0.4679	18.09	5.567
Pb2203_A		2.903	ug/L	0.4067	14.01	-0.2627
Sb2068_A		-2.234	ug/L	1.441	64.51	1.243
Se1960_A		-0.4561	ug/L	1.713	375.5	0.9912
Si2516_R		295.6	ug/L	11.68	3.953	77.27
Sn1899_A		0.06120	ug/L	0.4943	807.7	0.8587
Sr4215_R		24.30	ug/L	0.1723	0.7091	1,224
Ti3349_A		1.252	ug/L	0.4092	32.69	26.33
Tl1908_A		-1.333	ug/L	0.6642	49.84	-2.349
V_2924_A		-0.01937	ug/L	0.07192	371.2	-14.49
Zn2062_A		34.76	ug/L	0.03048	0.08768	99.67
Y_3600_R		15,400	Cts/S	132.74	0.86200	15,400
Y_2243_A		10,850	Cts/S	8.2146	0.075712	10,850
Y_3600_A		340,920	Cts/S	66.634	0.019545	340,920

SI0027-002T

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM

SI0027-002T

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:28:22PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1069	ug/L	0.1212	113.3	-4.863
Al3961_R		40.41	ug/L	8.351	20.67	19.29
As1891_A		0.9184	ug/L	0.4960	54.00	0.5750
Au2427_A		-0.3065	ug/L	0.5423	176.9	-8.625
B_2089_A		6.037	ug/L	0.1645	2.724	7.196
Ba4554_R		38.28	ug/L	0.3429	0.8958	1,482
Be3130_R		0.01730	ug/L	0.001936	11.19	-6.040
Ca3158_R		5,492	ug/L	55.29	1.007	4,377
Cd2265_A		0.5991	ug/L	0.006258	1.045	9.340
Co2286_A		0.3455	ug/L	0.08493	24.58	7.960
Cr2677_A		0.6257	ug/L	0.1225	19.57	19.38
Cu3273_A		0.6087	ug/L	0.09956	16.36	-27.73
Fe2599_R		5.690	ug/L	2.408	42.32	14.99
K_7664_R		449.2	ug/L	14.05	3.128	309.9
Li6707_R		2.094	ug/L	0.9214	43.99	6.869
Mg2025_A		328.1	ug/L	4.141	1.262	51.37
Mn2576_R		149.3	ug/L	1.719	1.151	745.1
Mo2020_A		0.4279	ug/L	0.2567	59.98	2.345
Na5895_R	F	257,400	ug/L	3,122	1.213	412,700
Ni2316_A		1.440	ug/L	0.1673	11.61	2.509
Pb2203_A		2.200	ug/L	0.1271	5.778	-1.127
Sb2068_A		-2.464	ug/L	0.9833	39.91	1.155
Se1960_A		-0.7527	ug/L	1.079	143.3	0.9150
Si2516_R		411.6	ug/L	3.987	0.9687	104.4
Sn1899_A		0.5658	ug/L	0.9600	169.7	1.080
Sr4215_R		32.85	ug/L	0.2558	0.7786	1,647
Ti3349_A		0.02615	ug/L	0.08240	315.1	-26.49
Tl1908_A		-2.847	ug/L	1.063	37.33	-2.712
V_2924_A		0.3416	ug/L	0.02772	8.114	-4.273
Zn2062_A		33.75	ug/L	0.06092	0.1805	96.79
Y_3600_R		15,260	Cts/S	94.178	0.61714	15,260
Y_2243_A		10,851	Cts/S	2.4795	0.022850	10,851
Y_3600_A		338,880	Cts/S	566.21	0.16708	338,880

SI0027-003T

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:33:15PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.03827	ug/L	0.06593	172.3	-7.350
Al3961_R		77.94	ug/L	15.46	19.84	41.94
As1891_A		17.90	ug/L	2.190	12.23	5.025
Au2427_A		0.3781	ug/L	0.6373	168.6	-8.412
B_2089_A		8.122	ug/L	0.03370	0.4150	9.144
Ba4554_R		80.25	ug/L	0.3092	0.3853	3,097
Be3130_R		0.06620	ug/L	0.05491	82.95	-3.181
Ca3158_R		16,190	ug/L	80.46	0.4970	12,990
Cd2265_A		1.037	ug/L	0.01766	1.704	17.17
Co2286_A		1.901	ug/L	0.1280	6.733	14.57
Cr2677_A		0.4517	ug/L	0.04096	9.069	16.70
Cu3273_A		2.346	ug/L	0.8204	34.97	10.25
Fe2599_R		19.46	ug/L	4.550	23.39	28.08
K_7664_R		788.7	ug/L	1.256	0.1592	539.8
Li6707_R		1.092	ug/L	0.5067	46.42	-3.209
Mg2025_A		520.0	ug/L	5.629	1.082	84.34
Mn2576_R		495.4	ug/L	3.798	0.7666	2,488
Mo2020_A		0.2027	ug/L	0.01624	8.011	1.910

SI0027-003T

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:33:15PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R	F	294,200	ug/L	4,849	1.648	473,800
Ni2316_A		2.377	ug/L	0.1565	6.586	4.972
Pb2203_A		12.95	ug/L	0.4178	3.225	12.12
Sb2068_A		-2.568	ug/L	0.3951	15.38	1.104
Se1960_A		-2.259	ug/L	1.095	48.49	0.6735
Si2516_R		847.5	ug/L	1.472	0.1737	210.0
Sn1899_A		0.9301	ug/L	0.3422	36.80	1.231
Sr4215_R		75.35	ug/L	0.2971	0.3943	3,824
Ti3349_A		0.1852	ug/L	0.03535	19.09	-19.84
Tl1908_A		0.2308	ug/L	0.4894	212.0	-1.770
V_2924_A		0.1166	ug/L	0.009721	8.336	-11.68
Zn2062_A		69.84	ug/L	0.005459	0.007817	198.3
Y_3600_R		15,332	Cts/S	102.93	0.67137	15,332
Y_2243_A		10,771	Cts/S	10.388	0.096444	10,771
Y_3600_A		341,540	Cts/S	4,413.9	1.2923	341,540

SI0027-004T

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:38:07PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.04795	ug/L	0.05489	114.5	-6.763
Al3961_R		29.03	ug/L	5.571	19.19	13.12
As1891_A		1.063	ug/L	1.228	115.6	0.6074
Au2427_A		0.04917	ug/L	0.1610	327.4	-6.425
B_2089_A		6.987	ug/L	0.07091	1.015	8.029
Ba4554_R		63.77	ug/L	0.7900	1.239	2,424
Be3130_R		-0.01128	ug/L	0.1494	1,325	-7.530
Ca3158_R		6,532	ug/L	62.16	0.9516	5,144
Cd2265_A		0.7235	ug/L	0.03504	4.843	11.49
Co2286_A		-0.1940	ug/L	0.09242	47.64	5.582
Cr2677_A		0.2716	ug/L	0.01896	6.980	11.76
Cu3273_A		1.512	ug/L	0.6353	42.02	-7.875
Fe2599_R		5.799	ug/L	1.100	18.97	14.91
K_7664_R		441.4	ug/L	14.90	3.376	300.8
Li6707_R		1.580	ug/L	0.7044	44.59	1.755
Mg2025_A		277.8	ug/L	5.013	1.804	42.17
Mn2576_R		104.1	ug/L	0.4034	0.3875	512.9
Mo2020_A		-0.08508	ug/L	0.1885	221.6	1.363
Na5895_R	F	282,100	ug/L	6,142	2.177	446,700
Ni2316_A		1.405	ug/L	0.3074	21.88	2.392
Pb2203_A		3.164	ug/L	0.8508	26.89	0.07071
Sb2068_A		-2.739	ug/L	0.1007	3.676	1.033
Se1960_A		0.5146	ug/L	3.330	647.1	1.125
Si2516_R		380.9	ug/L	10.58	2.777	95.83
Sn1899_A		5.793	ug/L	1.247	21.53	3.342
Sr4215_R		35.59	ug/L	0.07944	0.2232	1,765
Ti3349_A		0.04542	ug/L	0.07724	170.0	-25.31
Tl1908_A		-1.603	ug/L	0.6361	39.69	-2.154
V_2924_A		-0.07078	ug/L	0.1883	266.1	-12.70
Zn2062_A		44.75	ug/L	0.001358	0.003035	127.0
Y_3600_R		15,074	Cts/S	332.83	2.2080	15,074
Y_2243_A		10,753	Cts/S	1.2085	0.011239	10,753
Y_3600_A		333,860	Cts/S	1,091.9	0.32707	333,860

SI0027-005T

Method Name: K6010-2011 Method Revision: 1,614

SI0027-005T

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:43:00PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2561	ug/L	0.01641	6.407	0.1500
Al3961_R		24.66	ug/L	1.134	4.600	11.48
As1891_A		6.489	ug/L	0.6174	9.514	2.042
Au2427_A		-0.1286	ug/L	0.2478	192.7	-8.900
B_2089_A		6.543	ug/L	0.4778	7.302	7.660
Ba4554_R		61.37	ug/L	3.843	6.261	2,427
Be3130_R		0.02276	ug/L	0.03644	160.1	-5.849
Ca3158_R		7,652	ug/L	429.2	5.609	6,269
Cd2265_A		0.7404	ug/L	0.06307	8.518	11.89
Co2286_A		1.104	ug/L	0.07526	6.816	11.21
Cr2677_A		0.2936	ug/L	0.009492	3.233	12.91
Cu3273_A		3.455	ug/L	0.03287	0.9514	34.85
Fe2599_R		10.87	ug/L	0.2019	1.858	20.42
K_7664_R		910.8	ug/L	57.45	6.308	635.8
Li6707_R		0.4613	ug/L	0.6732	146.0	-9.634
Mg2025_A		365.8	ug/L	1.566	0.4283	57.86
Mn2576_R		275.5	ug/L	17.24	6.258	1,414
Mo2020_A		0.01752	ug/L	0.2074	1,184	1.568
Na5895_R	F	275,100	ug/L	10,580	3.846	453,200
Ni2316_A		1.546	ug/L	0.1445	9.348	2.786
Pb2203_A		7.677	ug/L	0.3349	4.362	5.659
Sb2068_A		-3.198	ug/L	0.5040	15.76	0.8922
Se1960_A		1.008	ug/L	1.217	120.7	1.235
Si2516_R		497.4	ug/L	20.35	4.091	128.4
Sn1899_A		2.723	ug/L	0.4367	16.04	2.022
Sr4215_R		40.70	ug/L	2.367	5.815	2,102
Ti3349_A		0.1078	ug/L	0.2441	226.4	-23.23
Tl1908_A		-0.5545	ug/L	0.4729	85.29	-1.902
V_2924_A		0.2824	ug/L	0.2342	82.94	-6.420
Zn2062_A		43.33	ug/L	0.05892	0.1360	123.9
Y_3600_R		15,688	Cts/S	488.31	3.1126	15,688
Y_2243_A		10,830	Cts/S	17.913	0.16540	10,830
Y_3600_A		341,960	Cts/S	816.44	0.23875	341,960

SI0027-006T

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:47:55PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2656	ug/L	0.07937	29.88	0.6000
Al3961_R		37.03	ug/L	3.732	10.08	17.31
As1891_A		-2.799	ug/L	0.6508	23.25	-0.4073
Au2427_A		-0.2977	ug/L	0.7444	250.0	-7.450
B_2089_A		7.894	ug/L	0.3638	4.608	8.979
Ba4554_R		110.6	ug/L	2.429	2.196	4,229
Be3130_R		0.01465	ug/L	0.07001	477.8	-6.199
Ca3158_R		4,997	ug/L	118.4	2.369	3,969
Cd2265_A		0.7962	ug/L	0.03084	3.873	12.90
Co2286_A		0.3635	ug/L	0.1188	32.68	8.034
Cr2677_A		0.1941	ug/L	0.1118	57.63	10.35
Cu3273_A		0.8274	ug/L	0.2616	31.62	-23.34
Fe2599_R		-2.191	ug/L	1.389	63.39	7.541
K_7664_R		1,075	ug/L	28.36	2.637	727.2
Li6707_R		3.387	ug/L	0.2138	6.312	19.69
Mg2025_A		293.4	ug/L	3.625	1.236	45.29
Mn2576_R		25.16	ug/L	0.5593	2.223	124.0
Mo2020_A		-0.1106	ug/L	0.04905	44.36	1.326

SI0027-006T

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:47:55PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R	F	275,700	ug/L	1,628	0.5905	440,800
Ni2316_A		1.849	ug/L	0.01842	0.9964	3.599
Pb2203_A	F	73,760	ug/L	284.7	0.3860	91,470
Sb2068_A		25.83	ug/L	0.4796	1.857	10.86
Se1960_A		-1.832	ug/L	0.5165	28.20	0.7135
Si2516_R		228.9	ug/L	11.37	4.967	60.40
Sn1899_A		1.897	ug/L	0.2259	11.91	1.663
Sr4215_R		31.85	ug/L	0.8449	2.653	1,592
Ti3349_A		-0.1263	ug/L	0.09520	75.38	-33.69
Tl1908_A		-1.015	ug/L	0.7382	72.70	-1.870
V_2924_A		-0.02072	ug/L	0.2225	1,074	-11.45
Zn2062_A		41.44	ug/L	0.2039	0.4921	118.7
Y_3600_R		15,218	Cts/S	185.57	1.2194	15,218
Y_2243_A		10,848	Cts/S	35.192	0.32441	10,848
Y_3600_A		345,120	Cts/S	2,799.3	0.81109	345,120

CCV

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:52:48PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		494.2	ug/L	0.3396	0.06871	18,130
Al3961_R		11,940	ug/L	41.35	0.3464	6,642
As1891_A		485.7	ug/L	2.786	0.5737	135.7
Au2427_A		494.3	ug/L	12.42	2.513	2,530
B_2089_A		496.6	ug/L	1.404	0.2827	524.5
Ba4554_R		494.0	ug/L	3.676	0.7441	19,380
Be3130_R		485.7	ug/L	1.987	0.4090	29,260
Ca3158_R		12,290	ug/L	125.2	1.019	10,080
Cd2265_A		490.2	ug/L	0.9559	0.1950	9,403
Co2286_A		497.5	ug/L	2.101	0.4223	2,278
Cr2677_A		489.1	ug/L	1.470	0.3006	11,050
Cu3273_A		498.0	ug/L	0.7523	0.1511	11,820
Fe2599_R		12,030	ug/L	77.94	0.6480	11,660
K_7664_R		12,090	ug/L	25.72	0.2127	8,328
Li6707_R		498.9	ug/L	6.280	1.259	5,106
Mg2025_A		12,770	ug/L	21.51	0.1684	2,371
Mn2576_R		485.9	ug/L	2.479	0.5102	2,496
Mo2020_A		491.8	ug/L	2.623	0.5334	981.4
Na5895_R		12,210	ug/L	109.2	0.8946	20,040
Ni2316_A		501.9	ug/L	0.3092	0.06161	1,414
Pb2203_A		502.1	ug/L	1.750	0.3486	651.1
Sb2068_A		498.5	ug/L	1.437	0.2882	181.9
Se1960_A		486.2	ug/L	5.155	1.060	91.90
Si2516_R		11,980	ug/L	115.1	0.9606	2,959
Sn1899_A		490.3	ug/L	3.592	0.7326	227.8
Sr4215_R		500.0	ug/L	4.091	0.8181	26,070
Ti3349_A		485.1	ug/L	1.237	0.2550	22,680
Tl1908_A		502.9	ug/L	1.482	0.2947	208.2
V_2924_A		487.4	ug/L	0.2621	0.05378	11,500
Zn2062_A		481.1	ug/L	2.291	0.4761	1,448
Y_3600_R		15,674	Cts/S	63.640	0.40601	15,674
Y_2243_A		11,452	Cts/S	13.343	0.11652	11,452
Y_3600_A		369,050	Cts/S	47.091	0.012760	369,050

CCB

Method Name: K6010-2011 Method Revision: 1,614

CCB

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 1:57:45PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.3288	ug/L	0.3314	100.8	2.913
Al3961_R		1.640	ug/L	3.118	190.1	-2.837
As1891_A		0.3053	ug/L	0.08142	26.67	0.4449
Au2427_A		0.9906	ug/L	0.2145	21.65	-1.038
B_2089_A		1.975	ug/L	0.05811	2.943	3.572
Ba4554_R		0.07993	ug/L	0.2773	346.9	25.68
Be3130_R		0.02000	ug/L	0.02863	143.1	-6.100
Ca3158_R		2.922	ug/L	3.204	109.6	-12.89
Cd2265_A		0.03766	ug/L	0.003736	9.920	-0.9176
Co2286_A		-0.2211	ug/L	0.09801	44.32	5.931
Cr2677_A		-0.005913	ug/L	0.05230	884.6	6.607
Cu3273_A		0.4005	ug/L	0.1027	25.64	-35.88
Fe2599_R		-0.5392	ug/L	2.053	380.9	9.384
K_7664_R		21.74	ug/L	36.12	166.1	24.25
Li6707_R		-0.003726	ug/L	2.554	68,560	-14.57
Mg2025_A		0.9257	ug/L	0.7446	80.44	-6.274
Mn2576_R		0.7008	ug/L	0.2236	31.91	2.057
Mo2020_A		2.884	ug/L	0.6566	22.77	7.496
Na5895_R		97.56	ug/L	0.8367	0.8576	103.1
Ni2316_A		-0.1072	ug/L	0.02513	23.43	-1.738
Pb2203_A		2.543	ug/L	0.3161	12.43	-0.7483
Sb2068_A		-2.958	ug/L	0.8684	29.36	1.065
Se1960_A		0.1020	ug/L	0.7917	776.1	1.131
Si2516_R		-4.298	ug/L	4.695	109.2	4.800
Sn1899_A		-0.9540	ug/L	0.4420	46.34	0.4437
Sr4215_R		0.05901	ug/L	0.03879	65.74	-18.77
Ti3349_A		0.9178	ug/L	0.09124	9.941	13.25
Tl1908_A		-0.09727	ug/L	0.4859	499.6	-1.592
V_2924_A		-0.06536	ug/L	0.1665	254.8	-13.80
Zn2062_A		0.02517	ug/L	0.1123	446.3	0.5758
Y_3600_R		15,719	Cts/S	27.599	0.17557	15,719
Y_2243_A		11,651	Cts/S	37.180	0.31912	11,651
Y_3600_A		376,540	Cts/S	5,008.6	1.3302	376,540

SI0027-006TL

Method Name: K6010-2011 Method Revision: 1,614
Analyst Name: EAM
Acquire Date: 1/8/2015 2:02:53PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		1.201	ug/L	0.4318	35.96	-0.2625
Al3961_R		77.01	ug/L	56.85	73.82	4.949
As1891_A		-0.7681	ug/L	3.060	398.3	0.3036
Au2427_A		1.423	ug/L	6.326	444.7	-4.612
B_2089_A		12.51	ug/L	0.4307	3.442	3.926
Ba4554_R		109.7	ug/L	2.038	1.858	877.2
Be3130_R		-0.3249	ug/L	0.2450	75.40	-11.11
Ca3158_R		5,017	ug/L	75.25	1.500	804.5
Cd2265_A		1.027	ug/L	0.08482	8.259	2.268
Co2286_A		-0.5253	ug/L	0.9555	181.9	6.255
Cr2677_A		0.05827	ug/L	0.2388	409.8	6.759
Cu3273_A		0.1955	ug/L	1.127	576.7	-42.99
Fe2599_R		-29.08	ug/L	0.3517	1.209	4.225
K_7664_R		948.9	ug/L	35.96	3.790	139.0
Li6707_R		-6.790	ug/L	8.987	132.4	-28.29
Mg2025_A		341.5	ug/L	2.067	0.6053	6.164
Mn2576_R		25.67	ug/L	1.142	4.447	24.70
Mo2020_A		3.734	ug/L	0.001685	0.04513	3.061

KATAHDIN ANALYTICAL SERVICES
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: I (Thermo iCAP 6500) **ANALYST:** HMM **ANALYSIS DATE:** 1-15-15

FILE NAME: I I A 1 5 A **METHOD:** ICP

- ☑ 200.7
- ☑ 6010C
- ☑ DoD
- ☐ _____

REVIEWED
ea 01-23-15
KATAHDIN ANALYTICAL
METALS SECTION

The pHs of all samples that were tested by direct analysis in this analytical run were checked just prior to analysis and confirmed to be <2. The time of preservation of these samples was checked in the "Measured Turbidity and Preservation of Incoming Samples" logbook to verify that they had been preserved at least 16 hours prior to analysis. These verifications were performed by _____ (initals) on _____ (date).

STANDARDS USED:

Standard Name	Standard ID	Prep. Date	Expiration Date	Standard Conc.
Cal. Blk/ICB/CCB	MWI5236	1-15-15	1-15-16	0 ug/L
Standard 1	MWI5256	12-19-14	2-14-15	Varies by Element
ICV	MWI5263	12-23-14	3-23-15	Varies by Element
PQL	MWI5260	12-19-14	3-5-15	Varies by Element
LRS1	MWI5282	1-9-15	3-5-15	Varies by Element
LRS2	MWI5264	12-23-14	3-5-15	Varies by Element
ICSA	MWI5261	1-9-15	4-9-15	Varies by Element
ICSAB	MWI5265	12-24-14	2-15-15	Varies by Element
CCV	MWI5285	1-13-15	2-14-15	Varies by Element
Internal Standard	MWI5284	1-12-15	4-12-15	5.0 mg/L Yttrium

Additional Comments and Notes:

ea 01-23-15

Intensity Report

Author:

Published: 1/16/2015 10:12:00AM

Notes:

Blank

Method Name: K6010-2011 Method Revision: 1,626

Analyst Name: HHM

Acquire Date: 1/15/2015 4:29:02PM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.00001200	Cts/S	0.0000	0.03283	-4.838
Al3961_R		-0.0004350	Cts/S	0.0003050	70.20	-6.184
As1891_A		0.00002000	Cts/S	0.00001600	80.09	0.2300
Au2427_A		-0.0004230	Cts/S	0.0002520	59.58	-4.763
B_2089_A		0.0002210	Cts/S	0.00005200	23.65	2.488
Ba4554_R		0.001460	Cts/S	0.00002700	1.863	20.70
Be3130_R		-0.0006450	Cts/S	0.00006000	9.276	-9.149
Ca3158_R		-0.0007140	Cts/S	0.0004270	59.89	-10.14
Cd2265_A		-0.0002330	Cts/S	0.0001320	56.90	-2.614
Co2286_A		0.0005840	Cts/S	0.00004500	7.768	6.566
Cr2677_A		0.00001700	Cts/S	0.000005000	30.54	6.699
Cu3273_A		-0.00009800	Cts/S	0.000005000	4.951	-39.21
Fe2599_R		0.0006250	Cts/S	0.00006200	9.980	8.854
K_7664_R		-0.00009000	Cts/S	0.001232	1,365	-1.347
Li6707_R		-0.001727	Cts/S	0.00005800	3.361	-24.49
Mg2025_A		-0.0004750	Cts/S	0.00003300	7.050	-5.341
Mn2576_R		0.0001020	Cts/S	0.0002560	249.9	1.438
Mo2020_A		0.0002420	Cts/S	0.00002800	11.74	2.725
Na5895_R		-0.001693	Cts/S	0.0003860	22.78	-24.04
Ni2316_A		-0.0001120	Cts/S	0.00007500	67.58	-1.255
Pb2203_A		-0.0003310	Cts/S	0.0001040	31.40	-3.725
Sb2068_A		0.0001190	Cts/S	0.000001000	0.4656	1.337
Se1960_A		0.00007200	Cts/S	0.000006000	7.606	0.8149
Si2516_R		0.0004120	Cts/S	0.0002060	50.05	5.833
Sn1899_A		0.00005200	Cts/S	0.00002000	38.85	0.5836
Sr4215_R		-0.001476	Cts/S	0.0001420	9.600	-20.92
Ti3349_A		-0.00009100	Cts/S	0.00003200	34.96	-36.43
Tl1908_A		-0.0001430	Cts/S	0.00001400	9.782	-1.609
V_2924_A		-0.00002500	Cts/S	0.00001000	41.42	-10.11
Zn2062_A		0.00006000	Cts/S	0.000008000	13.84	0.6750
Y_3600_R		14,181	Cts/S	109.83	0.77450	14,181
Y_2243_A		11,242	Cts/S	24.431	0.21732	11,242
Y_3600_A		401,430	Cts/S	1,598.7	0.39826	401,430

Std 1

Method Name: K6010-2011 Method Revision: 1,626

Analyst Name: HHM

Acquire Date: 1/15/2015 4:34:09PM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.08722	Cts/S	0.00003700	0.04279	33,540
Al3961_R		0.7764	Cts/S	0.007809	1.006	10,890
As1891_A		0.02455	Cts/S	0.00007400	0.3028	266.4
Au2427_A		0.4420	Cts/S	0.008726	1.974	4,796
B_2089_A		0.09219	Cts/S	0.0001400	0.1520	1,000
Ba4554_R		2.476	Cts/S	0.02242	0.9055	34,730
Be3130_R		3.304	Cts/S	0.03905	1.182	46,350
Ca3158_R		1.143	Cts/S	0.01273	1.114	16,030
Cd2265_A		1.640	Cts/S	0.0002850	0.01738	17,790
Co2286_A		0.4018	Cts/S	0.0002620	0.06523	4,360
Cr2677_A		0.05545	Cts/S	0.0001470	0.2646	21,320
Cu3273_A		0.05926	Cts/S	0.00004200	0.07103	22,780
Fe2599_R		1.239	Cts/S	0.01876	1.514	17,380

Std 1

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 4:34:09PM Sample Type: Standard

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
K_7664_R		1.136	Cts/S	0.01304	1.147	15,940
Li6707_R		0.6757	Cts/S	0.006612	0.9786	9,479
Mg2025_A		0.4017	Cts/S	0.000005000	0.001315	4,359
Mn2576_R		0.2629	Cts/S	0.002756	1.048	3,689
Mo2020_A		0.1745	Cts/S	0.001550	0.8881	1,894
Na5895_R		2.605	Cts/S	0.03538	1.358	36,550
Ni2316_A		0.2398	Cts/S	0.00008900	0.03731	2,602
Pb2203_A		0.1108	Cts/S	0.0003010	0.2713	1,202
Sb2068_A		0.03066	Cts/S	0.00001000	0.03279	332.7
Se1960_A		0.01637	Cts/S	0.0001360	0.8340	177.6
Si2516_R		0.3078	Cts/S	0.003321	1.079	4,319
Sn1899_A		0.03979	Cts/S	0.00006100	0.1544	431.8
Sr4215_R		3.087	Cts/S	0.03373	1.092	43,310
Ti3349_A		0.1083	Cts/S	0.0004350	0.4014	41,630
Tl1908_A		0.03636	Cts/S	0.00007700	0.2114	394.6
V_2924_A		0.05353	Cts/S	0.000002000	0.004659	20,580
Zn2062_A		0.2600	Cts/S	0.0004710	0.1812	2,821
Y_3600_R		14,029	Cts/S	18.361	0.13088	14,029
Y_2243_A		10,851	Cts/S	10.973	0.10113	10,851
Y_3600_A		384,520	Cts/S	704.61	0.18325	384,520

ICV

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 4:39:03PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		408.4	ug/L	0.01327	0.003248	14,060
Al3961_R		10,240	ug/L	109.8	1.073	4,455
As1891_A		400.1	ug/L	0.1851	0.04626	108.8
Au2427_A		389.1	ug/L	10.03	2.578	1,899
B_2089_A		410.6	ug/L	1.217	0.2964	420.3
Ba4554_R		410.0	ug/L	4.292	1.047	14,250
Be3130_R		415.0	ug/L	5.126	1.235	19,230
Ca3158_R		10,050	ug/L	147.3	1.465	6,438
Cd2265_A		409.4	ug/L	0.8718	0.2130	7,421
Co2286_A		411.6	ug/L	1.178	0.2862	1,833
Cr2677_A		408.4	ug/L	0.2886	0.07068	8,940
Cu3273_A		405.9	ug/L	1.046	0.2577	9,468
Fe2599_R		10,070	ug/L	142.5	1.415	7,007
K_7664_R		13,620	ug/L	108.6	0.7976	8,682
Li6707_R		405.9	ug/L	6.067	1.495	3,832
Mg2025_A		10,230	ug/L	22.84	0.2232	1,815
Mn2576_R		409.7	ug/L	1.819	0.4440	1,512
Mo2020_A		417.3	ug/L	1.096	0.2627	807.0
Na5895_R		9,962	ug/L	120.9	1.214	14,550
Ni2316_A		414.5	ug/L	0.3494	0.08429	1,099
Pb2203_A		417.9	ug/L	0.5403	0.1293	509.9
Sb2068_A		407.1	ug/L	2.309	0.5671	138.8
Se1960_A		405.7	ug/L	0.2186	0.05387	73.90
Si2516_R		9,967	ug/L	120.7	1.211	1,725
Sn1899_A		404.3	ug/L	1.716	0.4244	178.2
Sr4215_R		410.3	ug/L	5.185	1.264	17,760
Ti3349_A		400.4	ug/L	0.2910	0.07269	17,090
Tl1908_A	W	422.9	ug/L	0.3779	0.08936	169.2
V_2924_A		410.3	ug/L	0.4456	0.1086	8,662
Zn2062_A		411.4	ug/L	2.010	0.4886	1,183
Y_3600_R		14,026	Cts/S	84.974	0.60585	14,026

ICV

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 4:39:03PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Y_2243_A		11,059	Cts/S	44.397	0.40147	11,059
Y_3600_A		394,640	Cts/S	570.22	0.14449	394,640

ICB

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 4:46:01PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.004584	ug/L	0.2587	5,642	-4.975
Al3961_R		4.798	ug/L	4.428	92.28	-3.969
As1891_A		-0.5981	ug/L	0.2636	44.08	0.06624
Au2427_A		-0.3525	ug/L	0.1773	50.28	-6.462
B_2089_A		-0.4145	ug/L	0.2541	61.30	2.126
Ba4554_R		0.2518	ug/L	0.5946	236.1	29.05
Be3130_R		0.05453	ug/L	0.05083	93.22	-6.504
Ca3158_R		-3.233	ug/L	5.697	176.2	-12.02
Cd2265_A		0.04603	ug/L	0.01658	36.01	-1.758
Co2286_A		-0.1215	ug/L	0.07106	58.48	5.986
Cr2677_A		-0.2133	ug/L	0.1990	93.32	1.949
Cu3273_A		-0.3225	ug/L	0.05347	16.58	-46.73
Fe2599_R		-1.507	ug/L	3.469	230.2	7.675
K_7664_R		25.54	ug/L	0.05219	0.2044	14.95
Li6707_R		-1.613	ug/L	0.7774	48.18	-39.37
Mg2025_A		-0.7365	ug/L	1.121	152.2	-5.428
Mn2576_R		-0.4065	ug/L	0.1442	35.48	-0.06259
Mo2020_A		2.278	ug/L	0.5504	24.17	7.139
Na5895_R		3.542	ug/L	1.842	52.01	-18.50
Ni2316_A		-0.1988	ug/L	0.1108	55.76	-1.773
Pb2203_A		-0.1430	ug/L	0.03840	26.86	-3.881
Sb2068_A		0.6729	ug/L	0.5685	84.49	1.556
Se1960_A		-0.6858	ug/L	1.706	248.8	0.6849
Si2516_R		-7.024	ug/L	9.169	130.5	4.556
Sn1899_A		0.2322	ug/L	0.3764	162.1	0.6824
Sr4215_R		0.1591	ug/L	0.1664	104.6	-13.73
Ti3349_A		0.5980	ug/L	0.09187	15.36	-10.28
Tl1908_A		-0.2817	ug/L	0.5027	178.4	-1.715
V_2924_A		0.2278	ug/L	0.08964	39.34	-5.434
Zn2062_A		0.4173	ug/L	0.04768	11.42	1.884
Y_3600_R		13,965	Cts/S	55.789	0.39948	13,965
Y_2243_A		11,166	Cts/S	15.658	0.14023	11,166
Y_3600_A		399,890	Cts/S	280.82	0.070224	399,890

PQL

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 4:51:08PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		10.78	ug/L	0.3082	2.859	371.1
Al3961_R		318.6	ug/L	13.99	4.393	131.1
As1891_A		6.895	ug/L	0.5825	8.448	2.132
Au2427_A		97.44	ug/L	3.885	3.987	477.8
B_2089_A		50.60	ug/L	0.5779	1.142	53.47
Ba4554_R		5.477	ug/L	0.4778	8.723	208.0
Be3130_R		5.189	ug/L	0.04227	0.8146	228.3
Ca3158_R		103.1	ug/L	11.24	10.91	55.42
Cd2265_A		5.143	ug/L	0.06210	1.207	91.92
Co2286_A		10.34	ug/L	0.1355	1.310	53.13

PQL

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 4:51:08PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Cr2677_A		10.28	ug/L	0.06182	0.6016	233.4
Cu3273_A		26.98	ug/L	0.3677	1.363	598.8
Fe2599_R		102.5	ug/L	1.890	1.844	79.00
K_7664_R		1,037	ug/L	3.238	0.3123	651.6
Li6707_R		106.6	ug/L	1.666	1.563	976.8
Mg2025_A		106.7	ug/L	0.9568	0.8970	14.17
Mn2576_R		4.636	ug/L	0.2639	5.692	18.30
Mo2020_A		10.75	ug/L	0.02276	0.2118	23.71
Na5895_R		1,049	ug/L	3.893	0.3712	1,492
Ni2316_A		10.60	ug/L	0.09967	0.9403	27.28
Pb2203_A	W	6.402	ug/L	0.4768	7.448	4.233
Sb2068_A		8.369	ug/L	1.166	13.94	3.889
Se1960_A		8.542	ug/L	0.4892	5.728	2.373
Si2516_R		183.2	ug/L	8.955	4.887	36.94
Sn1899_A		106.4	ug/L	0.1712	0.1609	47.97
Sr4215_R		10.66	ug/L	0.1833	1.720	435.7
Ti3349_A		15.40	ug/L	0.1878	1.219	628.3
Tl1908_A		16.26	ug/L	0.7473	4.596	5.080
V_2924_A		10.37	ug/L	0.3067	2.957	211.2
Zn2062_A		20.81	ug/L	0.1191	0.5722	61.35
Y_3600_R		13,855	Cts/S	41.145	0.29698	13,855
Y_2243_A		11,211	Cts/S	12.158	0.10845	11,211
Y_3600_A		398,220	Cts/S	4,167.4	1.0465	398,220

LRS1

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 4:58:15PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	W	2,110	ug/L	0.3854	0.01827	70,030
Al3961_R		30.50	ug/L	6.841	22.43	76.44
As1891_A	W	21,350	ug/L	3.485	0.01632	5,508
Au2427_A	W	21,840	ug/L	19.74	0.09041	101,200
B_2089_A	W	21,250	ug/L	13.03	0.06133	20,110
Ba4554_R		20,010	ug/L	17.37	0.08680	691,300
Be3130_R		20,260	ug/L	194.8	0.9615	934,600
Ca3158_R		-1.279	ug/L	5.419	423.8	0.6935
Cd2265_A		19,690	ug/L	37.12	0.1885	338,800
Co2286_A		20,950	ug/L	34.28	0.1636	88,360
Cr2677_A		20,280	ug/L	30.94	0.1526	425,900
Cu3273_A	W	21,570	ug/L	19.24	0.08919	484,900
Fe2599_R		-16.62	ug/L	0.9860	5.933	-2.777
K_7664_R		44.60	ug/L	18.85	42.26	27.10
Li6707_R		20,100	ug/L	72.18	0.3591	190,100
Mg2025_A		-921.8	ug/L	10.57	1.146	576.8
Mn2576_R		20,570	ug/L	6.176	0.03003	75,470
Mo2020_A	W	5,338	ug/L	16.21	0.3037	9,779
Na5895_R		33.66	ug/L	1.246	3.701	25.37
Ni2316_A		20,970	ug/L	7.515	0.03585	52,880
Pb2203_A	W	21,280	ug/L	35.46	0.1666	24,930
Sb2068_A		20,990	ug/L	67.43	0.3213	6,734
Se1960_A	F	22,330	ug/L	23.90	0.1071	3,824
Si2516_R		158.1	ug/L	5.190	3.284	45.20
Sn1899_A		20,730	ug/L	26.77	0.1291	8,660
Sr4215_R		20,380	ug/L	82.27	0.4037	878,800
Ti3349_A		19,970	ug/L	67.46	0.3378	819,200
Tl1908_A		20,840	ug/L	41.11	0.1973	8,000

LRS1

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 4:58:15PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
V_2924_A		20,360	ug/L	1.935	0.009506	414,800
Zn2062_A		19,960	ug/L	98.87	0.4954	54,520
Y_3600_R		13,962	Cts/S	110.11	0.78861	13,962
Y_2243_A		10,511	Cts/S	10.270	0.097709	10,511
Y_3600_A		378,860	Cts/S	541.52	0.14293	378,860

LRS2

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:03:33PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		4.767	ug/L	0.4008	8.408	-1,792
Al3961_R		516,300	ug/L	262.4	0.05081	217,400
As1891_A		18.61	ug/L	1.800	9.669	1.216
Au2427_A		9.417	ug/L	1.311	13.93	180.4
B_2089_A		9.000	ug/L	2.605	28.94	10.68
Ba4554_R		17.60	ug/L	0.2350	1.335	610.7
Be3130_R		3.272	ug/L	0.2716	8.300	137.2
Ca3158_R	W	467,000	ug/L	9,645	2.065	289,600
Cd2265_A		0.3951	ug/L	0.4073	103.1	284.9
Co2286_A		1.293	ug/L	0.4813	37.23	10.89
Cr2677_A		0.2614	ug/L	0.2417	92.45	44.14
Cu3273_A		0.9188	ug/L	0.06271	6.825	68.03
Fe2599_R		239,600	ug/L	824.8	0.3443	161,000
K_7664_R		291,600	ug/L	2,214	0.7590	179,900
Li6707_R		21.62	ug/L	0.7480	3.459	175.3
Mg2025_A		190,600	ug/L	180.0	0.09444	29,970
Mn2576_R		11.75	ug/L	0.3891	3.312	47.79
Mo2020_A		21.28	ug/L	3.631	17.06	38.99
Na5895_R	W	188,400	ug/L	484.7	0.2573	266,400
Ni2316_A		4.416	ug/L	0.06188	1.401	-12.60
Pb2203_A		1.554	ug/L	0.1675	10.78	-66.03
Sb2068_A		5.495	ug/L	0.1604	2.919	10.47
Se1960_A		30.44	ug/L	6.067	19.93	6.583
Si2516_R		50,160	ug/L	111.7	0.2227	8,361
Sn1899_A		7.875	ug/L	0.3415	4.337	3.600
Sr4215_R		10.54	ug/L	0.3341	3.170	421.6
Ti3349_A		26.95	ug/L	1.553	5.763	969.2
Tl1908_A		4.271	ug/L	2.346	54.93	-1.615
V_2924_A		3.272	ug/L	0.8029	24.54	143.6
Zn2062_A		5.209	ug/L	0.4404	8.455	13.97
Y_3600_R		13,565	Cts/S	76.654	0.56509	13,565
Y_2243_A		9,867.3	Cts/S	23.194	0.23505	9,867.3
Y_3600_A		342,750	Cts/S	3,101.8	0.90497	342,750

ICSA

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:12:32PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		2.593	ug/L	0.2242	8.647	-1,409
Al3961_R		514,100	ug/L	7,918	1.540	216,100
As1891_A		-0.005048	ug/L	3.290	65,180	-1.766
Au2427_A		1.676	ug/L	0.2461	14.68	112.9
B_2089_A		2.731	ug/L	0.7093	25.98	4.658
Ba4554_R		0.05444	ug/L	0.1241	228.1	21.60
Be3130_R		0.02043	ug/L	0.08396	410.9	-7.915

ICSA

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:12:32PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ca3158_R		457,900	ug/L	2,096	0.4578	283,600
Cd2265_A		-0.5558	ug/L	0.1958	35.22	203.7
Co2286_A		0.1292	ug/L	0.1698	131.4	6.085
Cr2677_A		-0.09692	ug/L	0.2554	263.5	29.54
Cu3273_A		-3.035	ug/L	0.1699	5.596	-5.450
Fe2599_R		183,800	ug/L	3,016	1.641	123,400
K_7664_R		260.0	ug/L	37.82	14.54	158.8
Li6707_R		12.66	ug/L	2.311	18.26	92.77
Mg2025_A		461,800	ug/L	449.8	0.09741	72,430
Mn2576_R		-0.9643	ug/L	1.324	137.3	0.8119
Mo2020_A		3.026	ug/L	0.5752	19.01	7.575
Na5895_R		80.14	ug/L	6.326	7.893	90.28
Ni2316_A		0.8597	ug/L	0.4356	50.67	-15.90
Pb2203_A		2.604	ug/L	0.2850	10.95	-66.28
Sb2068_A		2.518	ug/L	0.08441	3.352	8.799
Se1960_A		6.264	ug/L	0.8363	13.35	2.739
Si2516_R		28.65	ug/L	15.84	55.27	3.144
Sn1899_A		4.190	ug/L	1.096	26.16	2.149
Sr4215_R	W	4.997	ug/L	0.2329	4.661	189.1
Ti3349_A		3.279	ug/L	0.1991	6.072	90.71
Tl1908_A		3.003	ug/L	0.3925	13.07	-1.927
V_2924_A		0.1601	ug/L	0.1643	102.7	66.00
Zn2062_A		0.9105	ug/L	0.1697	18.64	2.922
Y_3600_R		13,544	Cts/S	68.272	0.50407	13,544
Y_2243_A		9,841.4	Cts/S	5.8003	0.058938	9,841.4
Y_3600_A		343,090	Cts/S	3,875.5	1.1296	343,090

ICSAB

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:17:17PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		226.2	ug/L	0.5294	0.2340	5,372
Al3961_R		514,500	ug/L	7,954	1.546	213,900
As1891_A		98.60	ug/L	2.386	2.420	22.33
Au2427_A		524.8	ug/L	10.97	2.090	2,384
B_2089_A		505.2	ug/L	0.04491	0.008889	459.2
Ba4554_R		530.5	ug/L	3.947	0.7441	17,600
Be3130_R		525.1	ug/L	8.481	1.615	23,230
Ca3158_R		456,200	ug/L	11,970	2.623	279,500
Cd2265_A		959.8	ug/L	0.7542	0.07858	15,680
Co2286_A		474.2	ug/L	1.155	0.2436	1,879
Cr2677_A		496.0	ug/L	2.286	0.4608	9,556
Cu3273_A		532.7	ug/L	1.927	0.3617	11,010
Fe2599_R		184,800	ug/L	3,088	1.671	122,700
K_7664_R		22,050	ug/L	62.65	0.2841	13,430
Li6707_R		567.4	ug/L	1.839	0.3240	5,126
Mg2025_A		460,300	ug/L	372.7	0.08096	72,250
Mn2576_R		497.3	ug/L	4.834	0.9720	1,755
Mo2020_A		487.7	ug/L	3.277	0.6719	839.2
Na5895_R		21,660	ug/L	46.98	0.2169	30,240
Ni2316_A		939.9	ug/L	0.2462	0.02620	2,203
Pb2203_A		49.16	ug/L	1.521	3.095	-15.50
Sb2068_A		630.2	ug/L	3.647	0.5787	197.4
Se1960_A		55.85	ug/L	1.860	3.331	10.72
Si2516_R		2,106	ug/L	49.10	2.331	346.1
Sn1899_A		470.6	ug/L	2.306	0.4900	184.6

ICSAB

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:17:17PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Sr4215_R		527.0	ug/L	2.164	0.4106	21,790
Ti3349_A		496.9	ug/L	1.706	0.3433	18,620
Tl1908_A		95.49	ug/L	1.060	1.110	29.66
V_2924_A		513.3	ug/L	2.185	0.4257	9,587
Zn2062_A		945.7	ug/L	0.8066	0.08529	2,422
Y_3600_R		13,397	Cts/S	8.8521	0.066077	13,397
Y_2243_A		9,845.8	Cts/S	0.12667	0.0012870	9,845.8
Y_3600_A		346,470	Cts/S	1,803.6	0.52058	346,470

CCV

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:23:59PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		508.1	ug/L	3.023	0.5949	17,320
Al3961_R		12,780	ug/L	26.39	0.2066	5,613
As1891_A		503.1	ug/L	1.331	0.2645	136.7
Au2427_A		493.6	ug/L	12.83	2.599	2,410
B_2089_A		508.1	ug/L	0.9987	0.1966	519.1
Ba4554_R		506.9	ug/L	3.914	0.7720	17,780
Be3130_R		512.8	ug/L	1.705	0.3325	23,980
Ca3158_R		12,400	ug/L	193.5	1.560	8,018
Cd2265_A		502.7	ug/L	1.016	0.2021	9,110
Co2286_A		508.3	ug/L	1.060	0.2085	2,261
Cr2677_A		506.3	ug/L	3.057	0.6038	10,970
Cu3273_A		508.7	ug/L	2.283	0.4488	11,760
Fe2599_R		12,700	ug/L	123.8	0.9744	8,919
K_7664_R		12,500	ug/L	92.44	0.7396	8,042
Li6707_R		496.6	ug/L	5.668	1.141	4,737
Mg2025_A		12,750	ug/L	3.897	0.03057	2,262
Mn2576_R		504.3	ug/L	7.197	1.427	1,878
Mo2020_A		507.8	ug/L	3.007	0.5923	981.0
Na5895_R		12,320	ug/L	149.9	1.217	18,160
Ni2316_A		507.5	ug/L	0.2842	0.05601	1,345
Pb2203_A		511.4	ug/L	0.1299	0.02540	624.6
Sb2068_A		503.6	ug/L	2.000	0.3970	171.4
Se1960_A		500.7	ug/L	6.566	1.311	90.99
Si2516_R		12,480	ug/L	94.63	0.7581	2,179
Sn1899_A		500.8	ug/L	0.2652	0.05297	220.6
Sr4215_R		498.1	ug/L	6.084	1.221	21,760
Ti3349_A		501.9	ug/L	5.222	1.040	21,220
Tl1908_A		511.8	ug/L	0.2810	0.05491	205.0
V_2924_A		511.5	ug/L	3.717	0.7266	10,700
Zn2062_A		501.2	ug/L	0.3801	0.07583	1,441
Y_3600_R		14,156	Cts/S	115.16	0.81346	14,156
Y_2243_A		11,055	Cts/S	8.4095	0.076070	11,055
Y_3600_A		390,780	Cts/S	1,518.8	0.38866	390,780

CCB

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:28:56PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1191	ug/L	0.3437	288.6	-0.7375
Al3961_R		-12.78	ug/L	0.05200	0.4068	-11.69
As1891_A		1.015	ug/L	0.7656	75.43	0.5111
Au2427_A		0.5818	ug/L	0.2686	46.16	-1.863

CCB

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:28:56PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
B_2089_A		2.105	ug/L	0.3023	14.36	4.725
Ba4554_R		0.02506	ug/L	0.2287	912.4	21.51
Be3130_R		-0.1028	ug/L	0.06553	63.75	-13.96
Ca3158_R		-5.947	ug/L	2.141	36.01	-13.92
Cd2265_A		0.1102	ug/L	0.05582	50.67	-0.5822
Co2286_A		-0.08588	ug/L	0.1632	190.0	6.182
Cr2677_A		-0.01249	ug/L	0.01995	159.7	6.414
Cu3273_A		-0.2033	ug/L	0.1461	71.88	-44.00
Fe2599_R		2.736	ug/L	4.583	167.5	10.74
K_7664_R		29.20	ug/L	16.21	55.51	17.47
Li6707_R		2.340	ug/L	0.5607	23.96	-2.011
Mg2025_A		8.256	ug/L	2.125	25.74	-3.832
Mn2576_R		-0.1149	ug/L	0.8176	711.8	1.025
Mo2020_A		4.483	ug/L	0.6440	14.37	11.48
Na5895_R		0.2385	ug/L	5.080	2,130	-23.57
Ni2316_A		0.03251	ug/L	0.05122	157.5	-1.153
Pb2203_A		0.5392	ug/L	0.2321	43.05	-3.044
Sb2068_A		1.118	ug/L	0.8546	76.41	1.715
Se1960_A		3.042	ug/L	1.345	44.21	1.368
Si2516_R		-14.91	ug/L	2.439	16.36	3.241
Sn1899_A		0.1859	ug/L	0.4283	230.3	0.6648
Sr4215_R		0.3001	ug/L	0.2102	70.02	-7.766
Ti3349_A		1.375	ug/L	0.07739	5.628	23.51
Tl1908_A		0.07400	ug/L	0.07031	95.02	-1.576
V_2924_A		0.2600	ug/L	0.02004	7.708	-5.043
Zn2062_A		-0.04981	ug/L	0.002566	5.152	0.5279
Y_3600_R		14,130	Cts/S	35.399	0.25053	14,130
Y_2243_A		11,215	Cts/S	0.31605	0.0028180	11,215
Y_3600_A		400,540	Cts/S	4,087.3	1.0205	400,540

SI0167-011

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:34:04PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		16.87	ug/L	0.6644	3.938	-339.4
Al3961_R		239,000	ug/L	1,884	0.7880	10,470
As1891_A		196.6	ug/L	3.133	1.593	4.499
Au2427_A		9.674	ug/L	7.175	74.16	21.45
B_2089_A		21.72	ug/L	1.641	7.557	4.723
Ba4554_R		519.9	ug/L	3.962	0.7621	1,837
Be3130_R		7.242	ug/L	0.3898	5.383	2.289
Ca3158_R		30,550	ug/L	549.0	1.797	1,962
Cd2265_A		-0.5245	ug/L	0.01283	2.447	52.41
Co2286_A		190.0	ug/L	0.5235	0.2755	100.0
Cr2677_A		478.6	ug/L	4.036	0.8432	1,057
Cu3273_A		376.8	ug/L	3.646	0.9676	832.0
Fe2599_R	W	418,200	ug/L	3,757	0.8985	29,260
K_7664_R		24,620	ug/L	307.3	1.248	1,579
Li6707_R		453.8	ug/L	21.11	4.652	409.5
Mg2025_A		105,000	ug/L	118.0	0.1124	1,873
Mn2576_R		7,671	ug/L	109.2	1.423	2,849
Mo2020_A		20.71	ug/L	0.7178	3.466	6.777
Na5895_R		3,071	ug/L	134.8	4.388	428.3
Ni2316_A		583.6	ug/L	0.3381	0.05795	151.5
Pb2203_A		218.6	ug/L	1.209	0.5530	21.50
Sb2068_A		-19.70	ug/L	17.80	90.35	1.590

SI0167-011

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:34:04PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Se1960_A		7.814	ug/L	3.282	41.99	1.040
Si2516_R		5,912	ug/L	397.4	6.722	106.8
Sn1899_A		35.90	ug/L	4.345	12.10	2.183
Sr4215_R		190.4	ug/L	0.8399	0.4411	809.7
Ti3349_A		6,741	ug/L	22.65	0.3360	28,630
Tl1908_A		2.112	ug/L	1.212	57.41	-2.803
V_2924_A		383.5	ug/L	2.337	0.6095	829.0
Zn2062_A		939.3	ug/L	4.720	0.5025	274.8
Y_3600_R		14,122	Cts/S	190.93	1.3521	14,122
Y_2243_A		11,222	Cts/S	12.334	0.10991	11,222
Y_3600_A		392,930	Cts/S	1,082.8	0.27558	392,930

SI0167-011

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:39:06PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		11.62	ug/L	0.07572	0.6519	-698.1
Al3961_R	W	240,000	ug/L	2,095	0.8729	20,890
As1891_A		199.8	ug/L	6.227	3.117	8.843
Au2427_A		15.50	ug/L	0.1121	0.7235	52.25
B_2089_A		19.97	ug/L	2.039	10.21	6.444
Ba4554_R		511.6	ug/L	1.087	0.2125	3,574
Be3130_R		8.217	ug/L	0.1214	1.478	23.53
Ca3158_R		29,720	ug/L	397.4	1.337	3,804
Cd2265_A		-1.237	ug/L	0.2098	16.96	102.2
Co2286_A		189.1	ug/L	1.348	0.7125	189.7
Cr2677_A		474.3	ug/L	2.333	0.4918	2,077
Cu3273_A		371.8	ug/L	3.665	0.9858	1,670
Fe2599_R	W	413,700	ug/L	3,267	0.7897	57,540
K_7664_R		24,690	ug/L	391.1	1.584	3,149
Li6707_R		416.2	ug/L	11.96	2.874	766.9
Mg2025_A		103,000	ug/L	86.69	0.08420	3,628
Mn2576_R	W	7,578	ug/L	53.34	0.7039	5,593
Mo2020_A		8.049	ug/L	0.3129	3.887	5.798
Na5895_R		2,894	ug/L	12.69	0.4385	823.4
Ni2316_A		577.7	ug/L	0.4177	0.07230	297.0
Pb2203_A		213.0	ug/L	3.096	1.453	44.62
Sb2068_A		-7.557	ug/L	8.636	114.3	2.634
Se1960_A		-6.814	ug/L	0.1548	2.272	0.7211
Si2516_R		5,614	ug/L	56.04	0.9982	196.4
Sn1899_A		34.56	ug/L	2.271	6.571	3.614
Sr4215_R		183.6	ug/L	2.915	1.587	1,571
Ti3349_A	W	6,611	ug/L	48.63	0.7356	55,880
Tl1908_A		1.588	ug/L	4.293	270.3	-3.953
V_2924_A		378.7	ug/L	3.079	0.8131	1,638
Zn2062_A		943.0	ug/L	1.284	0.1362	543.4
Y_3600_R		14,034	Cts/S	169.51	1.2078	14,034
Y_2243_A		11,066	Cts/S	17.283	0.15618	11,066
Y_3600_A		390,730	Cts/S	3,721.6	0.95250	390,730

SI0167-011

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:44:07PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		9.386	ug/L	0.7515	8.007	-1,665

SI0167-011

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:44:07PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Al3961_R	W	232,000	ug/L	560.2	0.2415	51,330
As1891_A		186.1	ug/L	5.632	3.026	20.01
Au2427_A		17.75	ug/L	0.2333	1.315	135.9
B_2089_A		14.25	ug/L	1.169	8.206	9.460
Ba4554_R		500.2	ug/L	1.254	0.2507	8,849
Be3130_R		7.756	ug/L	0.01560	0.2012	65.57
Ca3158_R		28,740	ug/L	110.4	0.3840	9,365
Cd2265_A		-0.5769	ug/L	0.3120	54.08	248.6
Co2286_A		183.2	ug/L	0.6073	0.3315	445.6
Cr2677_A		459.7	ug/L	0.9622	0.2093	4,986
Cu3273_A		366.3	ug/L	1.968	0.5373	4,139
Fe2599_R	W	392,300	ug/L	3,080	0.7850	138,600
K_7664_R		24,130	ug/L	62.23	0.2578	7,824
Li6707_R		401.7	ug/L	1.469	0.3658	1,916
Mg2025_A	W	99,720	ug/L	161.8	0.1623	8,699
Mn2576_R	W	7,285	ug/L	33.92	0.4657	13,660
Mo2020_A		4.565	ug/L	0.9554	20.93	7.037
Na5895_R		2,801	ug/L	27.41	0.9786	2,060
Ni2316_A		556.9	ug/L	0.3319	0.05959	710.3
Pb2203_A		201.0	ug/L	0.8502	0.4229	108.7
Sb2068_A		1.153	ug/L	0.5687	49.35	5.823
Se1960_A		0.5184	ug/L	2.847	549.2	1.236
Si2516_R		5,519	ug/L	106.8	1.936	482.4
Sn1899_A		31.02	ug/L	0.2078	0.6700	7.317
Sr4215_R		178.8	ug/L	0.2565	0.1435	3,919
Ti3349_A	W	6,443	ug/L	10.93	0.1696	135,200
Tl1908_A		3.122	ug/L	1.336	42.80	-6.898
V_2924_A		366.2	ug/L	0.9267	0.2530	3,944
Zn2062_A		919.6	ug/L	0.8610	0.09364	1,310
Y_3600_R		14,265	Cts/S	150.76	1.0569	14,265
Y_2243_A		10,949	Cts/S	14.509	0.13251	10,949
Y_3600_A		387,830	Cts/S	322.17	0.083070	387,830

PBWIA13ICW1

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:49:09PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.03854	ug/L	0.1132	293.7	-4.763
Al3961_R		58.87	ug/L	12.83	21.80	20.13
As1891_A		1.479	ug/L	0.6819	46.12	0.6299
Au2427_A		-0.6778	ug/L	0.4309	63.57	-8.013
B_2089_A		0.3636	ug/L	0.4308	118.5	2.818
Ba4554_R		0.2200	ug/L	0.1374	62.46	28.99
Be3130_R		-0.08623	ug/L	0.06921	80.26	-13.50
Ca3158_R		7.838	ug/L	5.680	72.47	-5.118
Cd2265_A		0.04005	ug/L	0.02023	50.51	-1.713
Co2286_A		0.02482	ug/L	0.04743	191.1	6.655
Cr2677_A		-0.06815	ug/L	0.2220	325.8	5.464
Cu3273_A		-0.2552	ug/L	0.07212	28.26	-47.34
Fe2599_R	F	114.0	ug/L	22.89	20.08	90.76
K_7664_R		-2.478	ug/L	15.44	623.2	-2.889
Li6707_R		1.368	ug/L	0.6634	48.50	-11.60
Mg2025_A		13.71	ug/L	0.8714	6.357	-2.866
Mn2576_R		2.391	ug/L	0.08016	3.353	10.57
Mo2020_A		-0.5441	ug/L	0.2526	46.43	1.646
Na5895_R		24.72	ug/L	22.87	92.49	12.94

PBWIA13ICW1

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:49:09PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ni2316_A		-0.1495	ug/L	0.01921	12.85	-1.659
Pb2203_A		0.3898	ug/L	0.7966	204.4	-3.219
Sb2068_A		0.5129	ug/L	0.06276	12.24	1.504
Se1960_A		-0.1702	ug/L	2.750	1,616	0.7787
Si2516_R		9.320	ug/L	5.791	62.13	7.605
Sn1899_A		0.4127	ug/L	0.1919	46.50	0.7624
Sr4215_R		0.1134	ug/L	0.05259	46.38	-16.26
Ti3349_A		1.938	ug/L	0.08404	4.336	49.93
Tl1908_A		0.1982	ug/L	0.4421	223.0	-1.520
V_2924_A		0.1025	ug/L	0.1899	185.2	-8.097
Zn2062_A		0.3621	ug/L	0.008318	2.297	1.722
Y_3600_R		14,457	Cts/S	126.98	0.87836	14,457
Y_2243_A		11,164	Cts/S	6.5846	0.058981	11,164
Y_3600_A		419,310	Cts/S	3,193.0	0.76149	419,310

LCSWIA13ICW1

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:54:17PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		52.36	ug/L	0.08534	0.1630	1,871
Al3961_R		2,186	ug/L	69.53	3.181	981.6
As1891_A		105.0	ug/L	1.476	1.406	28.51
Au2427_A		0.6129	ug/L	0.8380	136.7	-5.784
B_2089_A		538.3	ug/L	2.406	0.4470	531.8
Ba4554_R		2,124	ug/L	32.72	1.541	76,470
Be3130_R		53.46	ug/L	0.9940	1.859	2,548
Ca3158_R		2,462	ug/L	27.65	1.123	1,627
Cd2265_A		265.0	ug/L	1.092	0.4118	4,753
Co2286_A		570.7	ug/L	3.075	0.5389	2,515
Cr2677_A		212.2	ug/L	1.600	0.7540	4,840
Cu3273_A		264.4	ug/L	2.032	0.7685	6,408
Fe2599_R		1,017	ug/L	17.21	1.693	741.6
K_7664_R		9,908	ug/L	150.2	1.516	6,550
Li6707_R		491.5	ug/L	5.902	1.201	4,817
Mg2025_A		5,482	ug/L	10.09	0.1840	973.0
Mn2576_R		521.4	ug/L	7.531	1.444	1,995
Mo2020_A	W	83.23	ug/L	5.714	6.865	161.5
Na5895_R		7,400	ug/L	68.02	0.9192	11,200
Ni2316_A		557.2	ug/L	0.3740	0.06712	1,464
Pb2203_A		109.4	ug/L	0.07976	0.07294	129.7
Sb2068_A		103.6	ug/L	0.6172	0.5956	34.59
Se1960_A		94.91	ug/L	10.82	11.40	17.77
Si2516_R		972.8	ug/L	29.10	2.991	180.1
Sn1899_A		501.3	ug/L	7.903	1.577	218.9
Sr4215_R		487.7	ug/L	6.367	1.306	21,890
Ti3349_A		446.8	ug/L	3.528	0.7897	19,840
Tl1908_A		111.9	ug/L	2.217	1.982	41.53
V_2924_A		510.5	ug/L	4.778	0.9358	11,300
Zn2062_A		567.3	ug/L	2.950	0.5200	1,618
Y_3600_R		14,545	Cts/S	11.430	0.078580	14,545
Y_2243_A		10,959	Cts/S	29.764	0.27159	10,959
Y_3600_A		410,900	Cts/S	3,769.5	0.91736	410,900

SI0168-001

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM

SI0168-001

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 5:59:18PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2512	ug/L	0.1554	61.87	-39.70
Al3961_R		1,365	ug/L	34.57	2.532	621.0
As1891_A		7.127	ug/L	0.7050	9.893	1.977
Au2427_A		0.6669	ug/L	0.8931	133.9	-1.838
B_2089_A		791.5	ug/L	1.512	0.1910	751.3
Ba4554_R		643.3	ug/L	13.52	2.102	23,470
Be3130_R		0.06148	ug/L	0.05820	94.66	-7.997
Ca3158_R		16,070	ug/L	350.6	2.182	10,810
Cd2265_A		1.693	ug/L	0.01257	0.7424	32.42
Co2286_A		5.824	ug/L	0.1085	1.863	31.31
Cr2677_A		27.31	ug/L	0.02686	0.09837	620.6
Cu3273_A		527.1	ug/L	6.310	1.197	12,620
Fe2599_R		4,552	ug/L	116.4	2.557	3,331
K_7664_R		12,680	ug/L	195.6	1.542	8,490
Li6707_R		26.59	ug/L	0.7756	2.917	239.9
Mg2025_A		1,745	ug/L	0.1923	0.01102	291.1
Mn2576_R		385.3	ug/L	10.69	2.774	1,493
Mo2020_A		68.05	ug/L	2.950	4.336	127.9
Na5895_R	W	75,910	ug/L	1,786	2.352	116,600
Ni2316_A		101.3	ug/L	0.1770	0.1748	255.3
Pb2203_A		40.25	ug/L	0.6166	1.532	43.91
Sb2068_A		3.601	ug/L	1.195	33.18	1.898
Se1960_A		-0.02229	ug/L	0.9912	4,446	0.7924
Si2516_R		5,215	ug/L	112.7	2.160	950.4
Sn1899_A		18.87	ug/L	0.01403	0.07431	8.472
Sr4215_R		56.80	ug/L	1.154	2.031	2,563
Ti3349_A		43.54	ug/L	0.4361	1.002	1,873
Tl1908_A		-0.3771	ug/L	0.2454	65.07	-2.041
V_2924_A		7.478	ug/L	0.1773	2.371	142.0
Zn2062_A	W	4,419	ug/L	13.24	0.2995	12,150
Y_3600_R		14,729	Cts/S	33.985	0.23074	14,729
Y_2243_A		10,566	Cts/S	22.026	0.20846	10,566
Y_3600_A		404,560	Cts/S	2,879.1	0.71164	404,560

SI0168-003

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:04:21PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.02863	ug/L	0.04511	157.6	-17.01
Al3961_R		134.7	ug/L	5.962	4.427	58.11
As1891_A		5.631	ug/L	0.4697	8.341	1.667
Au2427_A		0.2481	ug/L	0.6665	268.6	-4.238
B_2089_A		764.6	ug/L	3.565	0.4662	726.5
Ba4554_R		76.65	ug/L	2.927	3.818	2,882
Be3130_R		-0.01599	ug/L	0.02331	145.8	-10.64
Ca3158_R		6,156	ug/L	196.9	3.198	4,234
Cd2265_A		0.1265	ug/L	0.03428	27.09	1.091
Co2286_A		2.747	ug/L	0.09749	3.549	17.88
Cr2677_A		3.680	ug/L	0.02426	0.6594	90.72
Cu3273_A		26.56	ug/L	0.2069	0.7789	603.6
Fe2599_R		1,149	ug/L	51.01	4.440	867.7
K_7664_R		9,832	ug/L	349.1	3.551	6,740
Li6707_R		12.45	ug/L	0.7031	5.649	101.2
Mg2025_A		858.7	ug/L	0.4764	0.05548	140.6
Mn2576_R		187.2	ug/L	6.532	3.490	743.3
Mo2020_A		40.45	ug/L	1.438	3.555	77.19

SI0168-003

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:04:21PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R	W	58,070	ug/L	1,532	2.638	91,310
Ni2316_A		61.62	ug/L	0.05291	0.08586	155.3
Pb2203_A		4.855	ug/L	0.6967	14.35	2.232
Sb2068_A		0.7412	ug/L	0.3980	53.70	1.332
Se1960_A		-1.789	ug/L	1.447	80.90	0.4737
Si2516_R		3,113	ug/L	180.7	5.804	583.3
Sn1899_A		3.169	ug/L	0.2160	6.815	1.882
Sr4215_R		20.89	ug/L	0.7194	3.444	950.8
Ti3349_A		3.721	ug/L	0.2475	6.651	129.3
Tl1908_A		0.1009	ug/L	0.7598	753.2	-1.649
V_2924_A		2.814	ug/L	0.1156	4.108	45.16
Zn2062_A	W	1,137	ug/L	1.876	0.1650	3,132
Y_3600_R		15,084	Cts/S	216.41	1.4346	15,084
Y_2243_A		10,585	Cts/S	6.3679	0.060160	10,585
Y_3600_A		408,250	Cts/S	823.70	0.20177	408,250

PBSIA14ICS1

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:09:27PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1845	ug/L	0.08780	47.58	1.363
Al3961_R		17.04	ug/L	5.298	31.09	1.502
As1891_A		0.09139	ug/L	0.06909	75.60	0.2475
Au2427_A		0.3655	ug/L	0.4835	132.3	-2.838
B_2089_A		0.5683	ug/L	0.2198	38.68	3.034
Ba4554_R		0.6105	ug/L	0.1166	19.10	43.15
Be3130_R		-0.08786	ug/L	0.03294	37.49	-13.63
Ca3158_R	F	385.2	ug/L	12.10	3.143	245.7
Cd2265_A		0.04119	ug/L	0.04091	99.32	-1.746
Co2286_A		-0.09787	ug/L	0.07344	75.03	5.942
Cr2677_A		0.5964	ug/L	0.04142	6.946	20.91
Cu3273_A		0.4729	ug/L	0.02857	6.042	-29.26
Fe2599_R		38.56	ug/L	2.135	5.537	36.86
K_7664_R		16.24	ug/L	11.55	71.14	9.309
Li6707_R		4.391	ug/L	0.9089	20.70	18.29
Mg2025_A		21.75	ug/L	0.6993	3.215	-1.385
Mn2576_R		1.754	ug/L	0.3465	19.75	8.219
Mo2020_A		2.597	ug/L	0.7112	27.38	7.559
Na5895_R		88.71	ug/L	25.95	29.25	109.4
Ni2316_A		0.4849	ug/L	0.01752	3.613	0.05385
Pb2203_A		-0.4075	ug/L	0.3159	77.52	-4.101
Sb2068_A		-0.4178	ug/L	0.5278	126.3	1.079
Se1960_A		-1.340	ug/L	0.6454	48.16	0.5511
Si2516_R		2.884	ug/L	2.886	100.1	6.507
Sn1899_A		24.64	ug/L	0.08863	0.3596	11.21
Sr4215_R	W	7.382	ug/L	0.04961	0.6721	310.3
Ti3349_A		1.343	ug/L	0.08336	6.205	23.10
Tl1908_A		0.2805	ug/L	0.4167	148.6	-1.447
V_2924_A		0.2414	ug/L	0.3617	149.8	-5.525
Zn2062_A		1.726	ug/L	0.1910	11.07	5.534
Y_3600_R		14,550	Cts/S	451.61	3.1039	14,550
Y_2243_A		10,874	Cts/S	8.3555	0.076838	10,874
Y_3600_A		420,060	Cts/S	2,746.4	0.65381	420,060

LCSOIA14ICS1

Method Name: K6010-2011 Method Revision: 1,626

LCSOIA14ICS1

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:14:35PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		47.11	ug/L	0.07909	0.1679	1,668
Al3961_R		2,046	ug/L	9.869	0.4823	909.4
As1891_A		105.4	ug/L	0.8953	0.8496	27.64
Au2427_A		0.3733	ug/L	1.273	341.0	-6.458
B_2089_A		521.7	ug/L	3.273	0.6274	498.8
Ba4554_R		2,034	ug/L	24.81	1.220	72,460
Be3130_R		50.49	ug/L	0.7358	1.457	2,380
Ca3158_R		2,551	ug/L	15.23	0.5972	1,668
Cd2265_A		259.4	ug/L	1.391	0.5361	4,494
Co2286_A		551.3	ug/L	2.726	0.4946	2,347
Cr2677_A		198.7	ug/L	0.6010	0.3024	4,498
Cu3273_A		245.9	ug/L	0.2332	0.09485	5,907
Fe2599_R		1,019	ug/L	9.930	0.9749	735.2
K_7664_R		9,587	ug/L	163.2	1.702	6,272
Li6707_R		477.1	ug/L	4.340	0.9096	4,626
Mg2025_A		5,173	ug/L	33.59	0.6493	887.3
Mn2576_R		495.2	ug/L	3.512	0.7091	1,874
Mo2020_A		111.6	ug/L	1.507	1.351	208.3
Na5895_R		7,006	ug/L	36.68	0.5236	10,490
Ni2316_A		526.7	ug/L	1.328	0.2521	1,337
Pb2203_A		105.6	ug/L	0.3563	0.3373	120.9
Sb2068_A		97.28	ug/L	1.560	1.604	31.21
Se1960_A		105.0	ug/L	1.015	0.9666	18.91
Si2516_R		954.1	ug/L	2.791	0.2926	175.0
Sn1899_A		542.1	ug/L	0.7152	0.1319	228.6
Sr4215_R		468.2	ug/L	4.749	1.014	20,790
Ti3349_A		435.2	ug/L	1.429	0.3284	19,170
Tl1908_A		108.7	ug/L	1.884	1.734	39.03
V_2924_A		466.2	ug/L	0.04081	0.008754	10,240
Zn2062_A		547.0	ug/L	3.323	0.6075	1,507
Y_3600_R		14,392	Cts/S	24.826	0.17250	14,392
Y_2243_A		10,586	Cts/S	38.782	0.36633	10,586
Y_3600_A		407,600	Cts/S	861.35	0.21132	407,600

SI0210-001

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:19:36PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2477	ug/L	0.2966	119.8	-20.20
Al3961_R		394.0	ug/L	5.501	1.396	175.2
As1891_A		0.3328	ug/L	0.03222	9.682	0.2499
Au2427_A		-0.1184	ug/L	0.1147	96.89	-4.435
B_2089_A		114.4	ug/L	0.2207	0.1929	113.4
Ba4554_R		21.90	ug/L	0.2801	1.279	824.3
Be3130_R		-0.09600	ug/L	0.04296	44.75	-14.49
Ca3158_R		1,558	ug/L	9.631	0.6181	1,045
Cd2265_A		0.5953	ug/L	0.01431	2.403	11.04
Co2286_A		1.786	ug/L	0.07407	4.147	14.14
Cr2677_A		13.84	ug/L	0.09122	0.6592	333.0
Cu3273_A		964.6	ug/L	0.8456	0.08767	24,240
Fe2599_R		2,430	ug/L	63.10	2.597	1,792
K_7664_R		315.5	ug/L	19.81	6.279	211.0
Li6707_R		3.566	ug/L	2.353	65.99	9.978
Mg2025_A		64.71	ug/L	0.02360	0.03647	7.098
Mn2576_R		99.05	ug/L	1.262	1.274	387.2
Mo2020_A		16.69	ug/L	0.01795	0.1076	34.07

SI0210-001

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:19:36PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R		89.03	ug/L	12.99	14.60	112.7
Ni2316_A		71.07	ug/L	0.4837	0.6806	182.9
Pb2203_A		220.7	ug/L	0.08675	0.03931	262.5
Sb2068_A		1.824	ug/L	0.02135	1.171	1.499
Se1960_A		1.267	ug/L	0.1331	10.50	1.013
Si2516_R		355.5	ug/L	15.32	4.310	70.76
Sn1899_A		44.04	ug/L	0.4476	1.016	19.48
Sr4215_R		2.478	ug/L	0.07395	2.984	91.53
Ti3349_A		7.286	ug/L	0.01114	0.1530	296.9
Tl1908_A		0.2653	ug/L	0.2287	86.21	-1.535
V_2924_A		0.8502	ug/L	0.1259	14.81	5.713
Zn2062_A	W	2,395	ug/L	5.784	0.2415	6,736
Y_3600_R		14,817	Cts/S	283.91	1.9161	14,817
Y_2243_A		10,811	Cts/S	4.7132	0.043598	10,811
Y_3600_A		424,140	Cts/S	957.43	0.22573	424,140

CCV

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:24:42PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	W	462.1	ug/L	0.04294	0.009292	16,500
Al3961_R		12,430	ug/L	167.6	1.348	5,583
As1891_A	W	540.1	ug/L	0.01225	0.002269	139.8
Au2427_A		496.7	ug/L	15.30	3.080	2,311
B_2089_A	W	529.8	ug/L	0.9975	0.1883	515.8
Ba4554_R		506.4	ug/L	3.835	0.7573	18,160
Be3130_R		498.1	ug/L	4.536	0.9107	23,810
Ca3158_R	W	11,720	ug/L	165.0	1.408	7,746
Cd2265_A		525.4	ug/L	0.1124	0.02139	9,075
Co2286_A	W	545.5	ug/L	1.107	0.2029	2,312
Cr2677_A		487.4	ug/L	0.7156	0.1468	11,070
Cu3273_A		484.0	ug/L	0.5484	0.1133	11,720
Fe2599_R		12,220	ug/L	197.2	1.614	8,775
K_7664_R		12,050	ug/L	145.1	1.204	7,930
Li6707_R	W	470.2	ug/L	2.401	0.5106	4,586
Mg2025_A		13,120	ug/L	13.77	0.1049	2,220
Mn2576_R		479.4	ug/L	6.179	1.289	1,825
Mo2020_A	W	530.2	ug/L	4.596	0.8668	976.3
Na5895_R	W	11,440	ug/L	166.9	1.458	17,250
Ni2316_A		512.2	ug/L	0.4945	0.09654	1,294
Pb2203_A	W	532.9	ug/L	0.6360	0.1194	620.6
Sb2068_A		495.0	ug/L	2.324	0.4694	160.4
Se1960_A		519.8	ug/L	3.178	0.6113	90.00
Si2516_R	W	11,660	ug/L	199.1	1.707	2,082
Sn1899_A		520.9	ug/L	0.3658	0.07023	218.6
Sr4215_R	W	460.4	ug/L	5.960	1.294	20,560
Ti3349_A	W	456.9	ug/L	0.4028	0.08816	20,240
Tl1908_A	W	542.3	ug/L	0.4509	0.08313	207.5
V_2924_A	W	454.8	ug/L	0.6967	0.1532	9,952
Zn2062_A	W	543.9	ug/L	1.303	0.2396	1,490
Y_3600_R		14,475	Cts/S	163.79	1.1315	14,475
Y_2243_A		10,537	Cts/S	18.828	0.17869	10,537
Y_3600_A		409,550	Cts/S	87.567	0.021381	409,550

CCB

Method Name: K6010-2011 Method Revision: 1,626

CCB

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:29:39PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.08423	ug/L	0.1273	151.2	-1.988
Al3961_R		0.8157	ug/L	0.6651	81.54	-5.861
As1891_A		2.397	ug/L	1.044	43.53	0.8512
Au2427_A		0.5272	ug/L	0.01834	3.479	-2.038
B_2089_A		0.1828	ug/L	0.1861	101.8	2.641
Ba4554_R		0.5644	ug/L	0.1677	29.70	41.19
Be3130_R		0.1659	ug/L	0.01209	7.285	-1.427
Ca3158_R		1.391	ug/L	6.610	475.1	-9.378
Cd2265_A		0.06193	ug/L	0.06219	100.4	-1.404
Co2286_A		-0.001809	ug/L	0.04007	2,214	6.267
Cr2677_A		0.06977	ug/L	0.01889	27.07	8.652
Cu3273_A		0.01598	ug/L	0.3769	2,359	-40.72
Fe2599_R		1.942	ug/L	1.474	75.86	10.39
K_7664_R		-13.65	ug/L	5.394	39.53	-10.24
Li6707_R		3.430	ug/L	0.3913	11.41	8.589
Mg2025_A		-0.8291	ug/L	3.566	430.1	-5.218
Mn2576_R		-0.3320	ug/L	0.1282	38.63	0.2182
Mo2020_A		3.292	ug/L	0.7671	23.30	8.748
Na5895_R		22.50	ug/L	13.48	59.91	9.393
Ni2316_A		-0.3293	ug/L	0.01856	5.637	-2.035
Pb2203_A		-0.06819	ug/L	0.8048	1,180	-3.637
Sb2068_A		0.1412	ug/L	0.1362	96.48	1.318
Se1960_A		1.608	ug/L	3.387	210.6	1.057
Si2516_R		-19.82	ug/L	2.468	12.45	2.434
Sn1899_A		0.3049	ug/L	0.2269	74.41	0.6862
Sr4215_R		0.1211	ug/L	0.1681	138.8	-15.90
Ti3349_A		1.145	ug/L	0.01830	1.597	14.16
Tl1908_A		-0.1107	ug/L	0.03324	30.02	-1.580
V_2924_A		0.4432	ug/L	0.03665	8.268	-0.9751
Zn2062_A		-0.04351	ug/L	0.07058	162.2	0.5220
Y_3600_R		14,418	Cts/S	42.493	0.29471	14,418
Y_2243_A		10,720	Cts/S	9.1079	0.084963	10,720
Y_3600_A		420,730	Cts/S	105.31	0.025031	420,730

PBWIA14ICW2

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:34:47PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.1659	ug/L	0.1658	99.93	-11.06
Al3961_R		-1.904	ug/L	22.26	1,169	-7.074
As1891_A		-0.8558	ug/L	0.1890	22.09	-0.005001
Au2427_A		0.2662	ug/L	0.5522	207.4	-3.263
B_2089_A		0.4216	ug/L	0.2556	60.64	2.787
Ba4554_R		0.2661	ug/L	0.4255	159.9	30.41
Be3130_R		-0.04849	ug/L	0.005330	10.99	-11.58
Ca3158_R		9.585	ug/L	5.279	55.07	-3.958
Cd2265_A		-0.04596	ug/L	0.04547	98.93	-3.282
Co2286_A		0.03095	ug/L	0.06534	211.1	6.365
Cr2677_A		0.04039	ug/L	0.001225	3.032	7.887
Cu3273_A		0.1397	ug/L	0.1694	121.2	-37.22
Fe2599_R		0.4416	ug/L	1.676	379.5	9.287
K_7664_R		-67.53	ug/L	21.99	32.56	-45.41
Li6707_R		3.732	ug/L	2.380	63.76	11.49
Mg2025_A		0.5953	ug/L	0.7411	124.5	-4.958
Mn2576_R		0.2776	ug/L	0.4531	163.2	2.521
Mo2020_A		0.8687	ug/L	0.03694	4.253	4.198

PBWIA14ICW2

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:34:47PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R		27.89	ug/L	16.10	57.74	17.43
Ni2316_A		0.06198	ug/L	0.005071	8.181	-1.029
Pb2203_A		0.02908	ug/L	0.1793	616.7	-3.499
Sb2068_A		0.8505	ug/L	0.5633	66.24	1.541
Se1960_A		-1.090	ug/L	1.333	122.3	0.5837
Si2516_R		-7.977	ug/L	5.668	71.05	4.513
Sn1899_A		1.491	ug/L	0.007414	0.4974	1.185
Sr4215_R		0.05630	ug/L	0.01199	21.29	-18.70
Ti3349_A		0.3705	ug/L	0.07966	21.50	-21.00
Tl1908_A		-0.2565	ug/L	0.7222	281.6	-1.627
V_2924_A		0.01835	ug/L	0.05814	316.9	-10.22
Zn2062_A		1.517	ug/L	0.04894	3.225	4.850
Y_3600_R		14,365	Cts/S	24.508	0.17061	14,365
Y_2243_A		10,663	Cts/S	3.9215	0.036777	10,663
Y_3600_A		416,490	Cts/S	4,629.4	1.1115	416,490

LCSWIA14ICW2

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:39:57PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		49.34	ug/L	0.3284	0.6655	1,739
Al3961_R		2,207	ug/L	30.17	1.367	974.8
As1891_A		108.6	ug/L	1.219	1.122	28.29
Au2427_A		0.9648	ug/L	0.3559	36.89	-3.832
B_2089_A		523.8	ug/L	0.5040	0.09622	497.4
Ba4554_R		2,169	ug/L	34.17	1.576	76,780
Be3130_R		53.91	ug/L	0.2853	0.5293	2,528
Ca3158_R		2,386	ug/L	53.66	2.249	1,550
Cd2265_A		265.8	ug/L	0.06290	0.02366	4,573
Co2286_A	W	590.8	ug/L	0.1453	0.02460	2,497
Cr2677_A		212.1	ug/L	0.7280	0.3433	4,777
Cu3273_A		261.8	ug/L	1.245	0.4756	6,264
Fe2599_R		1,057	ug/L	5.152	0.4874	758.2
K_7664_R		9,744	ug/L	142.0	1.457	6,335
Li6707_R		479.1	ug/L	7.753	1.618	4,618
Mg2025_A		5,230	ug/L	1.112	0.02126	891.9
Mn2576_R		515.5	ug/L	10.39	2.016	1,939
Mo2020_A		113.4	ug/L	0.9425	0.8311	210.2
Na5895_R		6,979	ug/L	97.29	1.394	10,390
Ni2316_A		555.0	ug/L	0.9633	0.1736	1,399
Pb2203_A		108.6	ug/L	0.6361	0.5858	123.5
Sb2068_A		100.4	ug/L	0.7803	0.7773	32.04
Se1960_A		108.1	ug/L	0.8795	0.8135	19.31
Si2516_R		936.1	ug/L	20.44	2.184	170.7
Sn1899_A		529.8	ug/L	1.043	0.1969	221.9
Sr4215_R		467.4	ug/L	6.891	1.474	20,630
Ti3349_A		436.5	ug/L	4.228	0.9686	19,140
Tl1908_A		110.5	ug/L	1.125	1.018	39.37
V_2924_A		497.5	ug/L	0.03195	0.006421	10,870
Zn2062_A	W	589.6	ug/L	1.077	0.1826	1,613
Y_3600_R		14,305	Cts/S	186.66	1.3048	14,305
Y_2243_A		10,513	Cts/S	11.731	0.11159	10,513
Y_3600_A		405,710	Cts/S	668.09	0.16467	405,710

SI0210-002

Method Name: K6010-2011 Method Revision: 1,626

SI0210-002

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:44:58PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		9.472	ug/L	0.7396	7.808	-1,536
Al3961_R		12,630	ug/L	187.5	1.484	5,546
As1891_A		28.14	ug/L	1.051	3.733	1.901
Au2427_A		17.22	ug/L	0.2628	1.526	171.0
B_2089_A	F	74,100	ug/L	288.5	0.3893	65,510
Ba4554_R		468.6	ug/L	4.799	1.024	16,430
Be3130_R		0.07695	ug/L	0.04330	56.26	-12.88
Ca3158_R		8,341	ug/L	71.02	0.8515	5,387
Cd2265_A		6.798	ug/L	0.1452	2.136	339.4
Co2286_A		68.56	ug/L	0.3112	0.4539	280.5
Cr2677_A	W	1,043	ug/L	6.220	0.5961	22,560
Cu3273_A	F	23,190	ug/L	77.20	0.3329	536,000
Fe2599_R	W	202,400	ug/L	2,514	1.242	141,900
K_7664_R	W	128,200	ug/L	1,291	1.007	82,480
Li6707_R		23.87	ug/L	1.680	7.038	204.3
Mg2025_A		2,043	ug/L	12.14	0.5942	332.8
Mn2576_R	W	2,697	ug/L	23.49	0.8709	10,040
Mo2020_A		508.5	ug/L	1.553	0.3053	879.5
Na5895_R		21,030	ug/L	234.6	1.116	31,000
Ni2316_A	W	4,973	ug/L	1.207	0.02427	11,780
Pb2203_A	W	2,813	ug/L	0.8683	0.03086	3,108
Sb2068_A		34.59	ug/L	1.275	3.687	9.498
Se1960_A		4.962	ug/L	0.5841	11.77	1.555
Si2516_R		12,810	ug/L	92.60	0.7230	2,226
Sn1899_A		701.4	ug/L	1.659	0.2365	276.3
Sr4215_R		33.46	ug/L	0.2573	0.7689	1,442
Ti3349_A		228.4	ug/L	2.032	0.8897	9,617
Tl1908_A		-3.692	ug/L	0.5847	15.84	-5.573
V_2924_A		77.73	ug/L	0.4741	0.6099	1,546
Zn2062_A	F	33,010	ug/L	177.8	0.5388	84,970
Y_3600_R		14,149	Cts/S	52.372	0.37016	14,149
Y_2243_A		9,893.7	Cts/S	37.900	0.38307	9,893.7
Y_3600_A		389,400	Cts/S	3,251.3	0.83494	389,400

SI0212-003

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:49:40PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.2210	ug/L	0.007402	3.349	2.413
Al3961_R		43.92	ug/L	6.976	15.88	19.91
As1891_A		4.523	ug/L	0.1314	2.906	1.291
Au2427_A		-0.06129	ug/L	0.05856	95.54	-4.950
B_2089_A		160.1	ug/L	0.6257	0.3909	142.6
Ba4554_R		3.473	ug/L	0.09973	2.872	143.8
Be3130_R		-0.08032	ug/L	0.07937	98.81	-13.05
Ca3158_R	W	40,210	ug/L	422.8	1.051	26,280
Cd2265_A		-0.01219	ug/L	0.003211	26.34	-2.428
Co2286_A		0.2033	ug/L	0.01322	6.504	6.529
Cr2677_A		1.167	ug/L	0.2001	17.15	31.03
Cu3273_A		4.962	ug/L	0.9902	19.96	74.71
Fe2599_R		42.58	ug/L	1.508	3.541	39.09
K_7664_R		8,619	ug/L	142.6	1.655	5,601
Li6707_R		25.71	ug/L	0.04897	0.1905	224.3
Mg2025_A	W	34,660	ug/L	114.2	0.3296	5,412
Mn2576_R		68.12	ug/L	0.08967	0.1316	257.4
Mo2020_A		7.243	ug/L	0.5960	8.228	14.76

SI0212-003

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:49:40PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R	F	225,200	ug/L	10,460	4.646	335,700
Ni2316_A		0.9408	ug/L	0.1170	12.44	1.130
Pb2203_A		0.3137	ug/L	0.01668	5.318	-2.916
Sb2068_A		1.895	ug/L	1.481	78.19	1.730
Se1960_A		0.3992	ug/L	1.014	253.9	0.7799
Si2516_R		5,958	ug/L	29.79	0.5000	1,053
Sn1899_A		1.071	ug/L	0.03412	3.186	0.9261
Sr4215_R		307.7	ug/L	3.179	1.033	13,570
Ti3349_A		0.3696	ug/L	0.05641	15.26	-18.91
Tl1908_A		0.3178	ug/L	0.1266	39.84	-1.343
V_2924_A		0.2143	ug/L	0.09995	46.65	-6.628
Zn2062_A		12.35	ug/L	0.7402	5.994	32.09
Y_3600_R		14,299	Cts/S	165.84	1.1598	14,299
Y_2243_A		9,805.5	Cts/S	11.851	0.12086	9,805.5
Y_3600_A		379,480	Cts/S	466.88	0.12303	379,480

SI0212-004

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:54:33PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.03902	ug/L	0.1886	483.3	-4.813
Al3961_R		83.23	ug/L	15.87	19.07	72.68
As1891_A		2.237	ug/L	2.683	119.9	0.5835
Au2427_A		-0.3977	ug/L	0.8660	217.7	-4.900
B_2089_A	W	1,725	ug/L	5.381	0.3119	1,192
Ba4554_R		32.86	ug/L	0.6969	2.121	1,071
Be3130_R		-0.1431	ug/L	0.06968	48.68	-14.50
Ca3158_R	W	303,500	ug/L	4,387	1.446	179,600
Cd2265_A		-0.02007	ug/L	0.009118	45.44	-2.042
Co2286_A		0.9423	ug/L	0.08910	9.456	7.435
Cr2677_A		0.6050	ug/L	0.04144	6.849	15.34
Cu3273_A		5.294	ug/L	0.05178	0.9780	65.83
Fe2599_R		9.277	ug/L	3.145	33.90	14.05
K_7664_R	W	103,100	ug/L	1,747	1.695	60,660
Li6707_R		151.4	ug/L	0.5739	0.3791	1,305
Mg2025_A	F	505,700	ug/L	3,646	0.7211	62,250
Mn2576_R		42.58	ug/L	0.9314	2.188	146.2
Mo2020_A		4.760	ug/L	0.4743	9.965	8.280
Na5895_R	F	1,011,000	ug/L	67,690	6.695	1,366,000
Ni2316_A		0.7802	ug/L	0.03384	4.338	0.5912
Pb2203_A		-1.589	ug/L	0.4617	29.05	-3.939
Sb2068_A		7.190	ug/L	0.9158	12.74	2.615
Se1960_A		3.861	ug/L	1.798	46.58	1.048
Si2516_R		4,734	ug/L	47.84	1.011	758.8
Sn1899_A		0.7911	ug/L	0.4697	59.37	0.6435
Sr4215_R	W	3,993	ug/L	43.73	1.095	159,600
Ti3349_A		1.221	ug/L	0.1158	9.489	12.74
Tl1908_A		0.5306	ug/L	1.589	299.5	-0.9791
V_2924_A		-0.5188	ug/L	0.06238	12.02	-16.91
Zn2062_A		53.33	ug/L	0.5621	1.054	107.6
Y_3600_R		12,946	Cts/S	159.30	1.2305	12,946
Y_2243_A		7,723.8	Cts/S	12.416	0.16075	7,723.8
Y_3600_A		303,920	Cts/S	3,989.8	1.3128	303,920

SI0230-002

Method Name: K6010-2011 Method Revision: 1,626

SI0230-002

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 6:59:22PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.03051	ug/L	0.04144	135.9	-101.2
Al3961_R	W	28,650	ug/L	112.7	0.3933	13,000
As1891_A		9.785	ug/L	1.195	12.22	2.642
Au2427_A		1.041	ug/L	0.1738	16.70	5.370
B_2089_A		37.27	ug/L	0.1050	0.2818	37.67
Ba4554_R		364.4	ug/L	2.013	0.5524	13,220
Be3130_R		1.854	ug/L	0.02469	1.332	77.72
Ca3158_R		6,785	ug/L	52.35	0.7716	4,530
Cd2265_A		0.09522	ug/L	0.04578	48.08	11.84
Co2286_A		15.39	ug/L	0.01281	0.08321	71.99
Cr2677_A		28.19	ug/L	0.5613	1.991	644.6
Cu3273_A		120.8	ug/L	1.807	1.496	2,885
Fe2599_R		10,090	ug/L	67.57	0.6696	7,326
K_7664_R		2,922	ug/L	4.213	0.1442	1,943
Li6707_R		19.90	ug/L	1.669	8.388	172.0
Mg2025_A		4,729	ug/L	9.616	0.2033	790.5
Mn2576_R		166.5	ug/L	0.7144	0.4291	641.9
Mo2020_A		7.986	ug/L	0.2228	2.790	17.23
Na5895_R		19,490	ug/L	64.68	0.3319	29,720
Ni2316_A		21.02	ug/L	0.09887	0.4704	51.03
Pb2203_A		24.45	ug/L	0.8745	3.577	21.32
Sb2068_A		-0.9202	ug/L	0.4152	45.11	1.393
Se1960_A		-1.668	ug/L	2.225	133.4	0.5524
Si2516_R		10,600	ug/L	18.68	0.1762	1,914
Sn1899_A		3.471	ug/L	0.1179	3.397	2.002
Sr4215_R		177.5	ug/L	0.7835	0.4415	8,001
Ti3349_A		76.61	ug/L	1.275	1.665	3,339
Tl1908_A		-0.06976	ug/L	0.9384	1,345	-1.888
V_2924_A		25.63	ug/L	0.3413	1.332	555.3
Zn2062_A		63.88	ug/L	0.1207	0.1890	175.8
Y_3600_R		14,635	Cts/S	66.184	0.45224	14,635
Y_2243_A		10,547	Cts/S	1.7320	0.016423	10,547
Y_3600_A		407,090	Cts/S	6,680.9	1.6411	407,090

SI0230-003

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:04:25PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.8253	ug/L	0.003177	0.3850	-393.2
Al3961_R	W	68,100	ug/L	266.9	0.3920	31,300
As1891_A		23.37	ug/L	1.081	4.628	5.668
Au2427_A		4.497	ug/L	0.7286	16.20	35.32
B_2089_A		54.66	ug/L	0.2733	0.5001	54.76
Ba4554_R		235.5	ug/L	2.315	0.9831	8,658
Be3130_R		6.251	ug/L	0.1114	1.781	292.6
Ca3158_R		20,660	ug/L	237.3	1.149	13,990
Cd2265_A		0.08059	ug/L	0.05024	62.34	45.06
Co2286_A		35.36	ug/L	0.2998	0.8480	157.5
Cr2677_A		90.57	ug/L	0.3613	0.3989	2,092
Cu3273_A		98.14	ug/L	0.002665	0.002716	2,383
Fe2599_R	W	36,670	ug/L	308.0	0.8399	26,930
K_7664_R		5,596	ug/L	3.375	0.06031	3,769
Li6707_R		41.73	ug/L	0.9832	2.356	393.2
Mg2025_A		11,000	ug/L	5.020	0.04564	1,854
Mn2576_R		547.6	ug/L	3.376	0.6165	2,135
Mo2020_A		24.62	ug/L	0.1795	0.7292	48.02

SI0230-003

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:04:25PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R	W	55,080	ug/L	616.4	1.119	85,090
Ni2316_A		53.32	ug/L	0.2645	0.4961	130.8
Pb2203_A		86.08	ug/L	0.7376	0.8569	89.17
Sb2068_A		-2.122	ug/L	0.4291	20.22	1.841
Se1960_A		-2.162	ug/L	4.988	230.7	0.5712
Si2516_R		21,810	ug/L	257.4	1.180	3,977
Sn1899_A		6.879	ug/L	0.8225	11.96	3.446
Sr4215_R		388.7	ug/L	3.405	0.8759	17,770
Ti3349_A		124.6	ug/L	0.1768	0.1418	5,549
Tl1908_A		-1.900	ug/L	0.2957	15.57	-3.248
V_2924_A		65.14	ug/L	0.3760	0.5772	1,452
Zn2062_A		238.3	ug/L	0.6463	0.2712	657.3
Y_3600_R		14,818	Cts/S	41.916	0.28286	14,818
Y_2243_A		10,594	Cts/S	5.0755	0.047908	10,594
Y_3600_A		414,000	Cts/S	765.55	0.18491	414,000

SI0230-004

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:09:26PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.07718	ug/L	0.06746	87.40	-80.34
Al3961_R		10,080	ug/L	212.6	2.110	4,541
As1891_A		2.934	ug/L	0.1049	3.577	0.8237
Au2427_A		0.6586	ug/L	0.2761	41.93	2.435
B_2089_A		22.53	ug/L	0.6523	2.895	23.58
Ba4554_R		45.93	ug/L	0.9572	2.084	1,674
Be3130_R		0.6011	ug/L	0.01862	3.097	18.03
Ca3158_R		4,498	ug/L	69.27	1.540	2,981
Cd2265_A		0.07025	ug/L	0.03168	45.10	7.932
Co2286_A		5.871	ug/L	0.1621	2.760	31.32
Cr2677_A		13.17	ug/L	0.1533	1.164	312.8
Cu3273_A		16.88	ug/L	0.3028	1.794	378.3
Fe2599_R		7,343	ug/L	105.0	1.430	5,300
K_7664_R		1,609	ug/L	44.76	2.782	1,063
Li6707_R		11.38	ug/L	0.2053	1.804	87.02
Mg2025_A		2,419	ug/L	6.306	0.2607	400.3
Mn2576_R		98.56	ug/L	2.142	2.173	378.4
Mo2020_A		3.792	ug/L	0.2104	5.548	9.489
Na5895_R		13,370	ug/L	311.0	2.326	20,250
Ni2316_A		11.62	ug/L	0.3911	3.366	27.40
Pb2203_A		12.44	ug/L	0.01754	0.1410	9.840
Sb2068_A		-0.6900	ug/L	1.514	219.3	1.229
Se1960_A		-0.9425	ug/L	2.317	245.9	0.6262
Si2516_R		11,380	ug/L	279.9	2.460	2,041
Sn1899_A		2.384	ug/L	0.7301	30.62	1.541
Sr4215_R		65.71	ug/L	0.9099	1.385	2,931
Ti3349_A		45.02	ug/L	0.04074	0.09048	1,995
Tl1908_A		-0.8880	ug/L	0.4343	48.91	-2.031
V_2924_A		11.88	ug/L	0.1190	1.002	259.3
Zn2062_A		65.78	ug/L	0.3053	0.4642	180.4
Y_3600_R		14,546	Cts/S	157.57	1.0833	14,546
Y_2243_A		10,507	Cts/S	30.145	0.28691	10,507
Y_3600_A		417,100	Cts/S	2,982.7	0.71510	417,100

SI0230-004L

Method Name: K6010-2011 Method Revision: 1,626

SI0230-004L

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:14:29PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.8532	ug/L	0.9191	107.7	-13.73
Al3961_R		10,150	ug/L	195.9	1.929	903.7
As1891_A		2.254	ug/L	3.080	136.7	0.3050
Au2427_A		-1.630	ug/L	0.4277	26.25	-5.263
B_2089_A		37.01	ug/L	0.3109	0.8400	9.398
Ba4554_R		47.66	ug/L	1.989	4.174	361.7
Be3130_R		0.3573	ug/L	0.05249	14.69	-6.215
Ca3158_R		4,516	ug/L	74.36	1.647	586.1
Cd2265_A		0.05310	ug/L	0.05767	108.6	-0.4264
Co2286_A		5.794	ug/L	0.3393	5.856	11.26
Cr2677_A		13.22	ug/L	0.2727	2.063	70.40
Cu3273_A		16.24	ug/L	1.752	10.79	41.05
Fe2599_R		7,370	ug/L	121.1	1.644	1,063
K_7664_R		1,545	ug/L	43.67	2.826	201.5
Li6707_R		32.36	ug/L	1.110	3.430	38.36
Mg2025_A		2,542	ug/L	0.9684	0.03810	81.20
Mn2576_R		102.1	ug/L	3.180	3.116	78.97
Mo2020_A		1.243	ug/L	0.9572	76.98	3.039
Na5895_R		14,090	ug/L	269.9	1.915	4,220
Ni2316_A		10.53	ug/L	2.137	20.30	4.040
Pb2203_A		14.11	ug/L	2.051	14.54	-0.4345
Sb2068_A		8.072	ug/L	2.498	30.95	1.833
Se1960_A		-2.593	ug/L	7.067	272.6	0.6862
Si2516_R		12,410	ug/L	117.5	0.9470	446.6
Sn1899_A		2.992	ug/L	1.503	50.23	0.8049
Sr4215_R		65.71	ug/L	0.8194	1.247	564.9
Ti3349_A		46.99	ug/L	1.464	3.117	397.8
Tl1908_A		0.7492	ug/L	4.036	538.8	-1.501
V_2924_A		11.75	ug/L	0.5608	4.772	44.24
Zn2062_A		71.37	ug/L	1.139	1.596	40.15
Y_3600_R		14,441	Cts/S	82.556	0.57168	14,441
Y_2243_A		10,640	Cts/S	42.002	0.39475	10,640
Y_3600_A		429,390	Cts/S	1,000.5	0.23302	429,390

SI0230-004A

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:19:37PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		419.6	ug/L	0.9130	0.2176	15,070
Al3961_R		19,970	ug/L	302.1	1.513	9,067
As1891_A		531.0	ug/L	3.649	0.6873	134.9
Au2427_A		2.144	ug/L	0.4535	21.15	8.496
B_2089_A		531.1	ug/L	0.6053	0.1140	507.2
Ba4554_R		530.3	ug/L	6.745	1.272	19,220
Be3130_R		481.7	ug/L	6.062	1.259	23,280
Ca3158_R		9,181	ug/L	153.0	1.666	6,132
Cd2265_A		506.6	ug/L	1.315	0.2595	8,588
Co2286_A		539.5	ug/L	1.456	0.2700	2,243
Cr2677_A		470.9	ug/L	2.227	0.4728	10,770
Cu3273_A		470.7	ug/L	1.743	0.3704	11,480
Fe2599_R		12,300	ug/L	153.1	1.245	8,925
K_7664_R		10,720	ug/L	206.4	1.926	7,125
Li6707_R		442.2	ug/L	5.024	1.136	4,357
Mg2025_A		7,967	ug/L	5.144	0.06457	1,328
Mn2576_R		537.7	ug/L	9.101	1.693	2,069
Mo2020_A		526.5	ug/L	2.075	0.3941	951.2

SI0230-004A

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:19:37PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R		17,650	ug/L	377.4	2.138	26,910
Ni2316_A		500.7	ug/L	0.2400	0.04793	1,241
Pb2203_A		527.8	ug/L	0.1412	0.02675	602.0
Sb2068_A		461.8	ug/L	0.9168	0.1986	148.4
Se1960_A		505.4	ug/L	1.156	0.2287	85.92
Si2516_R		11,540	ug/L	290.4	2.516	2,083
Sn1899_A		2.293	ug/L	0.4796	20.92	1.478
Sr4215_R		490.8	ug/L	9.068	1.848	22,160
Ti3349_A		453.6	ug/L	1.906	0.4202	20,220
Tl1908_A		531.3	ug/L	0.2482	0.04672	199.4
V_2924_A		435.3	ug/L	0.4385	0.1007	9,582
Zn2062_A		624.9	ug/L	2.051	0.3282	1,680
Y_3600_R		14,631	Cts/S	218.57	1.4939	14,631
Y_2243_A		10,340	Cts/S	30.162	0.29171	10,340
Y_3600_A		412,140	Cts/S	1,943.1	0.47146	412,140

CCV

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:24:35PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	W	449.1	ug/L	6.430	1.432	16,250
Al3961_R		12,670	ug/L	18.46	0.1457	5,651
As1891_A	F	563.2	ug/L	2.143	0.3805	143.2
Au2427_A		503.1	ug/L	21.25	4.225	2,299
B_2089_A	W	548.0	ug/L	0.1510	0.02757	523.9
Ba4554_R		505.9	ug/L	7.714	1.525	18,010
Be3130_R		501.4	ug/L	6.314	1.259	23,800
Ca3158_R	W	11,330	ug/L	198.9	1.756	7,433
Cd2265_A	W	535.3	ug/L	1.151	0.2151	9,083
Co2286_A	F	562.8	ug/L	1.700	0.3021	2,342
Cr2677_A		477.9	ug/L	6.052	1.266	11,000
Cu3273_A		478.7	ug/L	6.858	1.433	11,750
Fe2599_R		12,200	ug/L	193.3	1.584	8,697
K_7664_R		12,060	ug/L	94.93	0.7873	7,875
Li6707_R	W	461.2	ug/L	6.012	1.304	4,464
Mg2025_A	W	13,320	ug/L	10.44	0.07841	2,214
Mn2576_R	W	468.5	ug/L	8.489	1.812	1,771
Mo2020_A	W	545.5	ug/L	4.117	0.7548	986.6
Na5895_R	F	10,850	ug/L	141.6	1.305	16,240
Ni2316_A		513.3	ug/L	0.6733	0.1312	1,274
Pb2203_A	W	547.6	ug/L	0.1776	0.03244	626.6
Sb2068_A		494.9	ug/L	0.09335	0.01886	157.5
Se1960_A	W	534.4	ug/L	8.332	1.559	90.87
Si2516_R		11,890	ug/L	218.0	1.834	2,107
Sn1899_A	W	533.4	ug/L	0.5912	0.1108	219.9
Sr4215_R	F	443.7	ug/L	5.699	1.284	19,670
Ti3349_A	F	432.4	ug/L	4.798	1.109	19,420
Tl1908_A	F	556.3	ug/L	2.589	0.4655	209.3
V_2924_A	F	444.4	ug/L	5.566	1.253	9,852
Zn2062_A	F	562.6	ug/L	2.532	0.4501	1,514
Y_3600_R		14,369	Cts/S	20.607	0.14341	14,369
Y_2243_A		10,352	Cts/S	39.277	0.37943	10,352
Y_3600_A		415,160	Cts/S	3,585.6	0.86366	415,160

CCB

Method Name: K6010-2011 Method Revision: 1,626

CCB

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:29:31PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		0.1414	ug/L	0.3369	238.2	0.06251
Al3961_R		-6.032	ug/L	2.557	42.40	-8.910
As1891_A		1.126	ug/L	0.5744	51.00	0.5074
Au2427_A		0.9988	ug/L	0.2309	23.12	0.1875
B_2089_A		2.969	ug/L	0.5249	17.68	5.206
Ba4554_R		0.6010	ug/L	0.1894	31.52	42.42
Be3130_R		0.1845	ug/L	0.04899	26.55	-0.5400
Ca3158_R		6.129	ug/L	4.541	74.09	-6.238
Cd2265_A		0.08256	ug/L	0.02550	30.89	-1.018
Co2286_A		0.1769	ug/L	0.08291	46.87	6.901
Cr2677_A		0.09079	ug/L	0.01565	17.24	9.209
Cu3273_A		-0.1645	ug/L	0.008365	5.086	-45.54
Fe2599_R		5.263	ug/L	6.779	128.8	12.74
K_7664_R		-36.96	ug/L	16.20	43.84	-25.48
Li6707_R		3.257	ug/L	0.3166	9.723	6.893
Mg2025_A		-2.374	ug/L	2.094	88.24	-5.374
Mn2576_R		0.4103	ug/L	1.131	275.8	3.026
Mo2020_A		3.158	ug/L	0.5010	15.86	8.340
Na5895_R		40.68	ug/L	0.8803	2.164	36.70
Ni2316_A		-0.1767	ug/L	0.1585	89.69	-1.613
Pb2203_A		-0.3590	ug/L	0.6149	171.3	-3.908
Sb2068_A		0.4921	ug/L	0.1304	26.50	1.410
Se1960_A		1.502	ug/L	0.1822	12.13	1.020
Si2516_R	W	123.9	ug/L	2.706	2.184	27.87
Sn1899_A		-0.6333	ug/L	0.5620	88.75	0.2812
Sr4215_R		0.4391	ug/L	0.09386	21.38	-1.721
Ti3349_A		1.068	ug/L	0.08855	8.290	10.73
Tl1908_A		-0.4420	ug/L	0.9259	209.5	-1.678
V_2924_A		0.1258	ug/L	0.2301	183.0	-8.253
Zn2062_A		-0.01035	ug/L	0.04119	398.1	0.6029
Y_3600_R		14,395	Cts/S	4.7839	0.033233	14,395
Y_2243_A		10,519	Cts/S	3.1417	0.029866	10,519
Y_3600_A		423,670	Cts/S	2,076.7	0.49017	423,670

SI0230-004P

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:34:40PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		46.51	ug/L	0.1215	0.2613	1,550
Al3961_R	W	27,650	ug/L	243.2	0.8793	12,330
As1891_A		117.9	ug/L	0.9801	0.8311	30.00
Au2427_A		2.498	ug/L	0.02947	1.180	9.043
B_2089_A		537.9	ug/L	3.331	0.6191	501.5
Ba4554_R	W	2,176	ug/L	32.10	1.476	77,420
Be3130_R		54.53	ug/L	0.7081	1.299	2,572
Ca3158_R		6,640	ug/L	115.1	1.734	4,355
Cd2265_A		262.7	ug/L	1.118	0.4255	4,451
Co2286_A		594.5	ug/L	4.360	0.7333	2,466
Cr2677_A		224.1	ug/L	0.9766	0.4357	5,082
Cu3273_A		270.7	ug/L	0.4666	0.1724	6,525
Fe2599_R		11,440	ug/L	197.5	1.727	8,156
K_7664_R		11,150	ug/L	98.82	0.8866	7,284
Li6707_R		464.3	ug/L	2.754	0.5930	4,497
Mg2025_A		8,379	ug/L	52.28	0.6240	1,394
Mn2576_R		595.5	ug/L	8.559	1.437	2,252
Mo2020_A		117.6	ug/L	1.490	1.268	213.9

SI0230-004P

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:34:40PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R		19,250	ug/L	121.1	0.6293	28,830
Ni2316_A		549.9	ug/L	1.540	0.2800	1,360
Pb2203_A		122.7	ug/L	0.7292	0.5945	134.1
Sb2068_A		48.67	ug/L	2.185	4.489	16.08
Se1960_A		106.4	ug/L	1.955	1.837	18.73
Si2516_R		15,280	ug/L	178.4	1.168	2,706
Sn1899_A		322.8	ug/L	1.533	0.4748	132.9
Sr4215_R		504.1	ug/L	4.758	0.9438	22,370
Ti3349_A		362.2	ug/L	2.952	0.8149	15,980
Tl1908_A		107.6	ug/L	0.2384	0.2215	37.48
V_2924_A		486.6	ug/L	4.070	0.8364	10,700
Zn2062_A		705.7	ug/L	5.293	0.7501	1,895
Y_3600_R		14,377	Cts/S	109.74	0.76331	14,377
Y_2243_A		10,322	Cts/S	62.479	0.60530	10,322
Y_3600_A		408,330	Cts/S	3,279.7	0.80318	408,330

SI0230-004S

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:39:40PM Sample Type: Unknown

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		46.00	ug/L	0.1952	0.4243	1,537
Al3961_R	W	30,910	ug/L	726.7	2.351	13,850
As1891_A		116.2	ug/L	1.622	1.396	29.66
Au2427_A		2.252	ug/L	0.2050	9.103	8.285
B_2089_A		538.6	ug/L	2.454	0.4556	503.6
Ba4554_R	W	2,160	ug/L	31.77	1.471	77,240
Be3130_R		54.04	ug/L	0.9847	1.822	2,559
Ca3158_R		6,727	ug/L	67.75	1.007	4,433
Cd2265_A		260.7	ug/L	0.1886	0.07236	4,429
Co2286_A		591.7	ug/L	1.509	0.2549	2,462
Cr2677_A		223.3	ug/L	0.02433	0.01090	5,100
Cu3273_A		267.2	ug/L	1.718	0.6428	6,489
Fe2599_R		12,000	ug/L	278.7	2.322	8,598
K_7664_R		11,290	ug/L	150.2	1.331	7,411
Li6707_R		464.4	ug/L	3.519	0.7577	4,519
Mg2025_A		8,550	ug/L	21.58	0.2525	1,426
Mn2576_R		596.1	ug/L	7.647	1.283	2,265
Mo2020_A		116.8	ug/L	0.1990	0.1704	213.2
Na5895_R		19,670	ug/L	185.8	0.9445	29,610
Ni2316_A		546.5	ug/L	0.5528	0.1012	1,355
Pb2203_A		121.8	ug/L	0.4457	0.3660	133.0
Sb2068_A		57.72	ug/L	0.6244	1.082	19.06
Se1960_A		107.8	ug/L	1.004	0.9313	19.02
Si2516_R	W	30,780	ug/L	684.9	2.225	5,473
Sn1899_A		315.6	ug/L	1.908	0.6045	130.4
Sr4215_R		505.7	ug/L	7.073	1.399	22,540
Ti3349_A		419.3	ug/L	1.000	0.2385	18,640
Tl1908_A		106.7	ug/L	2.434	2.282	37.19
V_2924_A		484.3	ug/L	2.811	0.5805	10,730
Zn2062_A		689.0	ug/L	2.356	0.3419	1,856
Y_3600_R		14,446	Cts/S	62.627	0.43353	14,446
Y_2243_A		10,351	Cts/S	35.463	0.34260	10,351
Y_3600_A		411,350	Cts/S	1,128.8	0.27440	411,350

CCV

Method Name: K6010-2011 Method Revision: 1,626

CCV

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:44:41PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	F	445.0	ug/L	4.052	0.9106	16,050
Al3961_R		12,590	ug/L	227.2	1.805	5,674
As1891_A	F	571.0	ug/L	0.4503	0.07886	143.8
Au2427_A		501.9	ug/L	15.90	3.168	2,271
B_2089_A	F	554.1	ug/L	1.106	0.1996	524.4
Ba4554_R		505.1	ug/L	7.196	1.425	18,170
Be3130_R		497.8	ug/L	10.67	2.143	23,880
Ca3158_R	F	11,130	ug/L	169.7	1.525	7,376
Cd2265_A	W	539.3	ug/L	1.288	0.2388	9,059
Co2286_A	F	569.4	ug/L	1.858	0.3263	2,346
Cr2677_A		478.8	ug/L	2.242	0.4681	10,990
Cu3273_A		477.4	ug/L	3.183	0.6666	11,690
Fe2599_R		12,130	ug/L	287.0	2.366	8,733
K_7664_R		11,950	ug/L	132.0	1.105	7,885
Li6707_R	W	452.0	ug/L	4.802	1.062	4,420
Mg2025_A	W	13,360	ug/L	10.68	0.07995	2,199
Mn2576_R	W	464.7	ug/L	9.326	2.007	1,775
Mo2020_A	W	548.3	ug/L	2.792	0.5092	981.9
Na5895_R	F	10,680	ug/L	44.69	0.4183	16,150
Ni2316_A		514.3	ug/L	0.3523	0.06850	1,264
Pb2203_A	W	551.2	ug/L	0.9742	0.1768	624.5
Sb2068_A		493.0	ug/L	1.376	0.2791	155.3
Se1960_A	W	542.2	ug/L	3.913	0.7217	91.28
Si2516_R	W	11,790	ug/L	209.9	1.780	2,112
Sn1899_A	W	534.6	ug/L	1.733	0.3243	218.3
Sr4215_R	F	436.6	ug/L	4.716	1.080	19,560
Ti3349_A	F	429.3	ug/L	0.7491	0.1745	19,220
Tl1908_A	F	560.9	ug/L	1.566	0.2791	208.9
V_2924_A	F	438.6	ug/L	5.067	1.155	9,694
Zn2062_A	F	569.5	ug/L	2.740	0.4811	1,518
Y_3600_R		14,519	Cts/S	43.550	0.29995	14,519
Y_2243_A		10,249	Cts/S	35.854	0.34982	10,249
Y_3600_A		413,950	Cts/S	4,279.4	1.0338	413,950

CCB

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:49:38PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		-0.07118	ug/L	0.0001200	0.1688	-7.713
Al3961_R		-12.75	ug/L	16.95	132.9	-12.20
As1891_A		2.810	ug/L	0.3411	12.14	0.9311
Au2427_A		0.5044	ug/L	0.6324	125.4	-2.088
B_2089_A		2.143	ug/L	0.4238	19.77	4.380
Ba4554_R		0.6053	ug/L	0.2208	36.48	43.25
Be3130_R		-0.03289	ug/L	0.1073	326.3	-11.13
Ca3158_R		0.6170	ug/L	0.1131	18.33	-10.04
Cd2265_A		0.1779	ug/L	0.07280	40.93	0.6169
Co2286_A		0.1746	ug/L	0.07081	40.55	6.815
Cr2677_A		0.2028	ug/L	0.1376	67.87	11.65
Cu3273_A		-0.7185	ug/L	0.3970	55.26	-58.91
Fe2599_R		4.258	ug/L	2.188	51.39	12.23
K_7664_R		-38.79	ug/L	31.62	81.52	-27.38
Li6707_R		3.750	ug/L	2.026	54.04	12.12
Mg2025_A		-1.001	ug/L	4.386	438.2	-5.087
Mn2576_R		-0.1413	ug/L	0.5323	376.7	0.9356
Mo2020_A		3.099	ug/L	0.5743	18.53	8.142

CCB

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:49:38PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Na5895_R		7.944	ug/L	0.2759	3.473	-12.68
Ni2316_A		-0.1239	ug/L	0.05269	42.53	-1.464
Pb2203_A		-0.3974	ug/L	0.7574	190.6	-3.911
Sb2068_A		0.3228	ug/L	0.8635	267.5	1.337
Se1960_A		1.872	ug/L	0.4944	26.41	1.071
Si2516_R	W	150.6	ug/L	14.45	9.592	33.15
Sn1899_A		0.7520	ug/L	0.3811	50.68	0.8511
Sr4215_R		0.1083	ug/L	0.1004	92.77	-16.77
Ti3349_A		0.9113	ug/L	0.2143	23.51	3.338
Tl1908_A		0.6761	ug/L	0.3943	58.32	-1.231
V_2924_A		0.2945	ug/L	0.1128	38.30	-4.288
Zn2062_A		0.02493	ug/L	0.1390	557.6	0.6921
Y_3600_R		14,652	Cts/S	302.30	2.0632	14,652
Y_2243_A		10,404	Cts/S	37.882	0.36411	10,404
Y_3600_A		418,620	Cts/S	12,084	2.8866	418,620

PQL

Method Name: K6010-2011 Method Revision: 1,626
Analyst Name: HHM
Acquire Date: 1/15/2015 7:54:46PM Sample Type: QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A		9.238	ug/L	0.2690	2.912	340.8
Al3961_R		304.5	ug/L	5.411	1.777	132.1
As1891_A	W	9.676	ug/L	0.9097	9.402	2.694
Au2427_A		99.37	ug/L	4.286	4.313	453.2
B_2089_A		56.63	ug/L	0.6639	1.172	55.36
Ba4554_R		5.317	ug/L	0.4832	9.087	214.0
Be3130_R		4.914	ug/L	0.1045	2.127	228.0
Ca3158_R		94.25	ug/L	2.689	2.854	52.66
Cd2265_A		5.486	ug/L	0.01082	0.1972	91.31
Co2286_A		11.77	ug/L	0.1913	1.626	55.33
Cr2677_A		9.712	ug/L	0.1521	1.567	237.4
Cu3273_A		25.25	ug/L	0.1917	0.7593	599.3
Fe2599_R		97.50	ug/L	3.548	3.639	79.87
K_7664_R		972.2	ug/L	5.551	0.5710	645.8
Li6707_R		96.65	ug/L	1.587	1.642	933.3
Mg2025_A		111.2	ug/L	4.150	3.733	13.97
Mn2576_R		5.013	ug/L	0.01877	0.3744	20.79
Mo2020_A		11.54	ug/L	0.2363	2.047	23.49
Na5895_R		897.7	ug/L	6.214	0.6922	1,346
Ni2316_A		10.29	ug/L	0.2090	2.032	24.58
Pb2203_A	W	6.280	ug/L	0.08490	1.352	3.796
Sb2068_A		8.181	ug/L	0.9232	11.28	3.531
Se1960_A	W	12.92	ug/L	0.4626	3.581	2.950
Si2516_R	W	255.4	ug/L	9.159	3.587	52.02
Sn1899_A		114.2	ug/L	0.2320	0.2030	47.87
Sr4215_R		8.918	ug/L	0.2520	2.826	381.8
Ti3349_A		13.07	ug/L	0.1242	0.9502	567.0
Tl1908_A		17.01	ug/L	0.2768	1.628	5.020
V_2924_A		8.904	ug/L	0.1328	1.492	192.8
Zn2062_A		23.44	ug/L	0.1034	0.4412	64.19
Y_3600_R		14,642	Cts/S	16.430	0.11221	14,642
Y_2243_A		10,425	Cts/S	8.8428	0.084823	10,425
Y_3600_A		427,720	Cts/S	161.98	0.037872	427,720

ICSA

Method Name: K6010-2011 Method Revision: 1,626

KATAHDIN ANALYTICAL SERVICES
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: I (Thermo iCAP 6500) **ANALYST:** EA **ANALYSIS DATE:** 01-22-15

FILE NAME: II A22-B **METHOD:** ICP

- ☑ 200.7
- ☑ 6010C
- ☑ DoD
- ☐ _____

REVIEWED
1-26-15
KATAHDIN ANALYTICAL
METALS SECTION

The pHs of all samples that were tested by direct analysis in this analytical run were checked just prior to analysis and confirmed to be <2. The time of preservation of these samples was checked in the "Measured Turbidity and Preservation of Incoming Samples" logbook to verify that they had been preserved at least 16 hours prior to analysis. These verifications were performed by EA (initals) on 01-22-15 (date).

STANDARDS USED:

Standard Name	Standard ID	Prep. Date	Expiration Date	Standard Conc.
Cal. Blk/ICB/CCB	MW15286	01-15-15	01-15-16	0 ug/L
Standard 1	MW15256	12-19-14	02-14-15	Varies by Element
ICV	MW15263	12-23-14	03-23-15	Varies by Element
PQL	MW15260	12-19-14	03-05-15	Varies by Element
LRS1	MW15282	01-09-15	↓	Varies by Element
LRS2	MW15287	01-16-15	↓	Varies by Element
ICSA	MW15281	01-09-15	04-09-15	Varies by Element
ICSAB	MW15265	12-24-14	02-15-15	Varies by Element
CCV	MW15285	01-13-15	02-14-15	Varies by Element
Internal Standard	MW15284	01-12-15	04-12-15	5.0 mg/L Yttrium

Additional Comments and Notes:

1-30-15

INSTRUMENT RUNLOG

Instrument: ICAP 6500

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Blank	1.000	IIA22B	1/22/2015	16:49	EAM
Std 1	1.000	IIA22B	1/22/2015	16:54	EAM
ICV	1.000	IIA22B	1/22/2015	16:59	EAM
ICB	1.000	IIA22B	1/22/2015	17:06	EAM
PQL	1.000	IIA22B	1/22/2015	17:11	EAM
LRS1	1.000	IIA22B	1/22/2015	17:18	EAM
LRS2	1.000	IIA22B	1/22/2015	17:23	EAM
ICSA	1.000	IIA22B	1/22/2015	17:32	EAM
ICSAB	1.000	IIA22B	1/22/2015	17:36	EAM
CCV	1.000	IIA22B	1/22/2015	17:43	EAM
CCB	1.000	IIA22B	1/22/2015	17:48	EAM
PBSIA19ICS1	1.000	IIA22B	1/22/2015	17:53	EAM
LCSOIA19ICS1	1.000	IIA22B	1/22/2015	17:58	EAM
LC2OIA19ICS1	1.000	IIA22B	1/22/2015	18:03	EAM
SI0209-001	1.000	IIA22B	1/22/2015	18:08	EAM
SI0219-001	1.000	IIA22B	1/22/2015	18:13	EAM
SI0318-001	1.000	IIA22B	1/22/2015	18:18	EAM
SI0344-001	1.000	IIA22B	1/22/2015	18:24	EAM
SI0349-001	1.000	IIA22B	1/22/2015	18:29	EAM
PBSIA16ICS1	1.000	IIA22B	1/22/2015	18:34	EAM
LCSOIA16ICS1	1.000	IIA22B	1/22/2015	18:39	EAM
CCV	1.000	IIA22B	1/22/2015	18:44	EAM
CCB	1.000	IIA22B	1/22/2015	18:49	EAM
SI0220-001	1.000	IIA22B	1/22/2015	18:54	EAM
PBWIA21ICW1	1.000	IIA22B	1/22/2015	18:59	EAM
LCSWIA21ICW1	2.000	IIA22B	1/22/2015	19:04	EAM
SI0386-001	5.000	IIA22B	1/22/2015	19:09	EAM
PBWIA14ICW1	1.000	IIA22B	1/22/2015	19:14	EAM
LCSWIA14ICW1	2.000	IIA22B	1/22/2015	19:19	EAM
SI0226-001	5.000	IIA22B	1/22/2015	19:24	EAM
PBWIA14ICW2	1.000	IIA22B	1/22/2015	19:30	EAM
LCSWIA14ICW2	1.000	IIA22B	1/22/2015	19:35	EAM
SI0230-002	1.000	IIA22B	1/22/2015	19:40	EAM
CCV	1.000	IIA22B	1/22/2015	19:45	EAM
CCB	1.000	IIA22B	1/22/2015	19:50	EAM
SI0230-003	1.000	IIA22B	1/22/2015	19:55	EAM
SI0230-004	1.000	IIA22B	1/22/2015	20:00	EAM
SI0230-004L	5.000	IIA22B	1/22/2015	20:05	EAM
SI0230-004A	1.000	IIA22B	1/22/2015	20:10	EAM
SI0230-004S	1.000	IIA22B	1/22/2015	20:15	EAM
SI0230-004P	1.000	IIA22B	1/22/2015	20:20	EAM
SI0210-002	1.000	IIA22B	1/22/2015	20:25	EAM
SI0212-004	5.000	IIA22B	1/22/2015	20:30	EAM
PBWIA16ICW1	1.000	IIA22B	1/22/2015	20:35	EAM

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
LCSWIA16ICW1	1.000	IIA22B	1/22/2015	20:40	EAM
CCV	1.000	IIA22B	1/22/2015	20:45	EAM
CCB	1.000	IIA22B	1/22/2015	20:50	EAM
SI0386-001	1.000	IIA22B	1/22/2015	20:55	EAM
SI0226-001	1.000	IIA22B	1/22/2015	21:00	EAM
PBT1223D	1.000	IIA22B	1/22/2015	21:05	EAM
PBT1225A	1.000	IIA22B	1/22/2015	21:10	EAM
SI0227-001T	1.000	IIA22B	1/22/2015	21:15	EAM
SI0227-002T	1.000	IIA22B	1/22/2015	21:20	EAM
SI0227-003T	1.000	IIA22B	1/22/2015	21:25	EAM
SI0227-004T	1.000	IIA22B	1/22/2015	21:29	EAM
SI0230-001T	1.000	IIA22B	1/22/2015	21:34	EAM
SI0279-001	1.000	IIA22B	1/22/2015	21:39	EAM
CCV	1.000	IIA22B	1/22/2015	21:44	EAM
CCB	1.000	IIA22B	1/22/2015	21:49	EAM
PBWIA16ICW2	1.000	IIA22B	1/22/2015	21:54	EAM
LCSWIA16ICW2	2.000	IIA22B	1/22/2015	21:59	EAM
SI0234-001	1.000	IIA22B	1/22/2015	22:04	EAM
SI0234-002	1.000	IIA22B	1/22/2015	22:10	EAM
SI0234-003	1.000	IIA22B	1/22/2015	22:15	EAM
SI0234-004	1.000	IIA22B	1/22/2015	22:20	EAM
SI0234-004L	5.000	IIA22B	1/22/2015	22:25	EAM
SI0234-004S	1.000	IIA22B	1/22/2015	22:30	EAM
SI0234-004P	1.000	IIA22B	1/22/2015	22:35	EAM
SI0299-001	1.000	IIA22B	1/22/2015	22:40	EAM
CCV	1.000	IIA22B	1/22/2015	22:45	EAM
CCB	1.000	IIA22B	1/22/2015	22:50	EAM
SI0299-001	2.000	IIA22B	1/22/2015	22:55	EAM
CCV	1.000	IIA22B	1/22/2015	23:00	EAM
CCB	1.000	IIA22B	1/22/2015	23:05	EAM
PQL	1.000	IIA22B	1/22/2015	23:10	EAM
ICSA	1.000	IIA22B	1/22/2015	23:15	EAM
ICSAB	1.000	IIA22B	1/22/2015	23:20	EAM
CCV	1.000	IIA22B	1/22/2015	23:24	EAM
CCB	1.000	IIA22B	1/22/2015	23:29	EAM

Sample Name: Blank Acquired: 1/22/2015 16:49:12 Type: Cal
Method: K6010-2011(v1630) Mode: IR Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A
Line	328.068 {103}	396.152 { 85}	189.042 {479}	242.795 {139}	208.959 {461}
IS Ref	(Y_3600_A)	(Y_3600_R)	(Y_2243_A)	(Y_2243_A)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	-.0001	-.0001	-.0003	.0002
Stddev	.0000	.0001	.0000	.0001	.0000
%RSD	63.43	149.8	26.24	18.27	10.78
#1	.0001	-.0001	-.0001	-.0003	.0003
#2	.0000	.0000	-.0001	-.0004	.0002

Elem	Ba4554_R	Be3130_R	Ca3158_R	Cd2265_A	Co2286_A
Line	455.403 { 74}	313.042 {108}	315.887 {107}	226.502 {449}	228.616 {447}
IS Ref	(Y_3600_R)	(Y_3600_R)	(Y_3600_R)	(Y_2243_A)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0034	-.0002	-.0006	.0001	.0005
Stddev	.0000	.0003	.0000	.0000	.0000
%RSD	.6012	158.3	6.762	7.086	8.115
#1	.0034	.0000	-.0006	.0001	.0004
#2	.0034	-.0004	-.0007	.0001	.0005

Elem	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R	Li6707_R
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600_A)	(Y_3600_A)	(Y_3600_R)	(Y_3600_R)	(Y_3600_R)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0003	.0003	.0016	-.0007
Stddev	.0000	.0000	.0002	.0005	.0004
%RSD	10.41	3.930	57.76	32.81	58.68
#1	.0000	.0003	.0002	.0012	-.0010
#2	.0000	.0003	.0005	.0020	-.0004

Sample Name: Blank Acquired: 1/22/2015 16:49:12 Type: Cal
Method: K6010-2011(v1630) Mode: IR Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A
Line	202.582 {467}4	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {445}
IS Ref	(Y_2243_A)	(Y_3600_R)	(Y_2243_A)	(Y_3600_R)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0002	-.0000	.0002	-.0009	-.0001
Stddev	.0001	.0002	.0000	.0004	.0000
%RSD	36.64	538.1	7.158	43.84	43.18
#1	-.0001	-.0002	.0002	-.0006	-.0000
#2	-.0003	.0001	.0003	-.0011	-.0001

Elem	Pb2203_A	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A
Line	220.353 {453}	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}
IS Ref	(Y_2243_A)	(Y_2243_A)	(Y_2243_A)	(Y_3600_R)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0000	.0000	.0002	.0001
Stddev	.0000	.0000	.0000	.0000	.0000
%RSD	67.75	58.00	2.386	17.21	30.87
#1	.0000	.0000	.0000	.0002	.0001
#2	.0000	.0000	.0000	.0002	.0001

Elem	Sr4215_R	Ti3349_A	Tl1908_A	V_2924_A	Zn2062_A
Line	421.552 { 80}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3600_R)	(Y_3600_A)	(Y_2243_A)	(Y_3600_A)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0014	-.0001	-.0001	-.0000	.0001
Stddev	.0006	.0000	.0000	.0000	.0000
%RSD	43.28	6.964	8.702	40.50	52.09
#1	-.0018	-.0001	-.0001	-.0000	.0001
#2	-.0009	-.0001	-.0001	-.0000	.0000

Sample Name: Blank Acquired: 1/22/2015 16:49:12 Type: Cal
Method: K6010-2011(v1630) Mode: IR Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Line	360.073 { 94}	224.306 {450}	360.073 { 94}2
Units	Cts/S	Cts/S	Cts/S
Avg	12767.	12094.	443280.
Stddev	93.	14.	999.
%RSD	.73124	.11642	.22534
#1	12833.	12104.	443990.
#2	12701.	12084.	442580.

Sample Name: Std 1 Acquired: 1/22/2015 16:54:19 Type: Cal
Method: K6010-2011(v1630) Mode: IR Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A
Line	328.068 {103}	396.152 { 85}	189.042 {479}	242.795 {139}	208.959 {461}
IS Ref	(Y_3600_A)	(Y_3600_R)	(Y_2243_A)	(Y_2243_A)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0811**	**.8281**	**.0248**	**.3909**	**.0854**
Stddev	.0000	.0122	.0001	.0094	.0001
%RSD	.0080	1.468	.2507	2.416	.1165
#1	.0811	.8195	.0247	.3842	.0853
#2	.0811	.8367	.0248	.3976	.0855

Elem	Ba4554_R	Be3130_R	Ca3158_R	Cd2265_A	Co2286_A
Line	455.403 { 74}	313.042 {108}	315.887 {107}	226.502 {449}	228.616 {447}
IS Ref	(Y_3600_R)	(Y_3600_R)	(Y_3600_R)	(Y_2243_A)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.770**	**2.758**	**1.087**	**1.470**	**.4064**
Stddev	.033	.038	.011	.002	.0002
%RSD	1.206	1.367	1.042	.1451	.0542
#1	2.746	2.732	1.079	1.468	.4062
#2	2.793	2.785	1.095	1.471	.4065

Elem	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R	Li6707_R
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600_A)	(Y_3600_A)	(Y_3600_R)	(Y_3600_R)	(Y_3600_R)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0479**	**.0507**	**.9409**	**1.134**	**.7573**
Stddev	.0000	.0000	.0122	.011	.0117
%RSD	.0050	.0200	1.302	.9907	1.539
#1	.0479	.0507	.9322	1.126	.7491
#2	.0479	.0507	.9495	1.141	.7656

Sample Name: Std 1 Acquired: 1/22/2015 16:54:19 Type: Cal
Method: K6010-2011(v1630) Mode: IR Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A
Line	202.582 {467}4	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {445}
IS Ref	(Y_2243_A)	(Y_3600_R)	(Y_2243_A)	(Y_3600_R)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3827**	**.2123**	**.1430**	**3.204**	**.2446**
Stddev	.0001	.0017	.0012	.032	.0004
%RSD	.0290	.8037	.8430	.9829	.1787
#1	.3826	.2111	.1422	3.182	.2443
#2	.3827	.2135	.1439	3.226	.2449

Elem	Pb2203_A	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A
Line	220.353 {453}	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}
IS Ref	(Y_2243_A)	(Y_2243_A)	(Y_2243_A)	(Y_3600_R)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0976**	**.0317**	**.0149**	**.2536**	**.0356**
Stddev	.0000	.0001	.0001	.0035	.0001
%RSD	.0072	.3289	.8745	1.366	.2699
#1	.0976	.0317	.0148	.2511	.0355
#2	.0976	.0318	.0150	.2560	.0357

Elem	Sr4215_R	Ti3349_A	Tl1908_A	V_2924_A	Zn2062_A
Line	421.552 { 80}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3600_R)	(Y_3600_A)	(Y_2243_A)	(Y_3600_A)	(Y_2243_A)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.141**	**.1209**	**.0327**	**.0553**	**.2543**
Stddev	.038	.0003	.0000	.0002	.0005
%RSD	1.221	.2630	.0456	.4214	.2077
#1	3.114	.1207	.0327	.0554	.2539
#2	3.169	.1211	.0327	.0551	.2547

Sample Name: Std 1 Acquired: 1/22/2015 16:54:19 Type: Cal
Method: K6010-2011(v1630) Mode: IR Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Line	360.073 { 94}	224.306 {450}	360.073 { 94}2
Units	Cts/S	Cts/S	Cts/S
Avg	12752.	11751.	427510.
Stddev	24.	6.	1313.
%RSD	.18731	.04882	.30707
#1	12769.	11755.	426580.
#2	12736.	11747.	428440.

Sample Name: ICV Acquired: 1/22/2015 16:59:12 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**410.6**	**10090.**	**399.7**	**392.5**	**412.9**	**413.6**	**416.8**
Stddev	1.2	51.	1.9	10.8	1.0	4.0	5.9
%RSD	.2878	.5077	.4647	2.738	.2431	.9621	1.407
#1	409.7	10050.	398.4	384.9	412.2	410.8	412.7
#2	411.4	10120.	401.0	400.1	413.6	416.4	421.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**10180.**	**409.6**	**413.8**	**414.1**	**409.9**	**10140.**	**13760.**
Stddev	65.	.6	.0	.6	.8	195.	144.
%RSD	.6353	.1523	.0061	.1356	.1865	1.918	1.049
#1	10140.	409.2	413.8	413.7	409.4	10010.	13660.
#2	10230.	410.1	413.8	414.5	410.5	10280.	13860.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**411.5**	**10230.**	**419.1**	**418.9**	**10150.**	**416.4**	**418.1**
Stddev	3.3	27.	5.6	3.0	70.	.8	.8
%RSD	.7919	.2604	1.330	.7070	.6903	.1958	.1876
#1	409.2	10210.	415.2	416.8	10100.	415.8	418.7
#2	413.8	10250.	423.1	421.0	10200.	417.0	417.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 1/22/2015 16:59:12 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	407.0	411.0	10190.	403.4	416.5	410.9	W 427.9
Stddev	.6	3.5	131.	2.8	3.5	1.7	.4
%RSD	.1362	.8464	1.286	.6901	.8521	.4191	.0984
#1	406.6	408.5	10100.	401.4	414.0	409.7	427.6
#2	407.4	413.4	10280.	405.3	419.0	412.1	428.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							400.0
Range							5.400%

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	413.0	411.9
Stddev	.8	.8
%RSD	.1847	.1944
#1	412.5	411.3
#2	413.5	412.4
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12826.	11997.	436380.
Stddev	25.	27.	1127.
%RSD	.19565	.22499	.25833
#1	12808.	12016.	437170.
#2	12844.	11978.	435580.

Sample Name: ICB Acquired: 1/22/2015 17:06:08 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.3283**	**.4364**	**.8580**	**-.7616**	**.5079**	**-.0028**	**.0479**
Stddev	.0625	18.60	.5752	.5259	.2133	.1951	.1026
%RSD	19.03	4262.	67.04	69.05	42.00	7082.	214.0
#1	-.2841	13.59	1.265	-.3897	.3570	-.1407	.1205
#2	-.3724	-12.71	.4513	-1.133	.6587	.1352	-.0246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-9.463**	**-.0436**	**.1320**	**-.0206**	**-.4125**	**.9825**	**-48.22**
Stddev	.574	.0132	.1022	.0467	.2783	.4180	18.75
%RSD	6.067	30.34	77.45	227.1	67.49	42.55	38.88
#1	-9.869	-.0529	.2042	-.0536	-.6093	1.278	-34.96
#2	-9.057	-.0342	.0597	.0125	-.2156	.6869	-61.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.471**	**-.1106**	**.2598**	**2.438**	**14.66**	**-.0864**	**-.3473**
Stddev	1.960	3.087	.3637	.622	3.45	.0228	.1058
%RSD	56.46	2792.	140.0	25.50	23.51	26.41	30.47
#1	2.085	2.072	.5170	2.877	12.22	-.0703	-.2724
#2	4.857	-2.293	.0026	1.998	17.10	-.1026	-.4221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICB Acquired: 1/22/2015 17:06:08 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.0830	.7791	26.23	-.1905	-.0197	.6708	.8408
Stddev	.5333	3.437	1.97	.4788	.1378	.0088	1.268
%RSD	642.3	441.1	7.525	251.4	699.0	1.317	150.8
#1	-.2941	3.209	27.63	-.5290	.0778	.6646	-.0559
#2	.4601	-1.651	24.84	.1481	-.1172	.6771	1.737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.1399	-.1554
Stddev	.1788	.1272
%RSD	127.8	81.87
#1	-.2664	-.2454
#2	-.0134	-.0654
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12576.	12121.	442490.
Stddev	130.	15.	2413.
%RSD	1.0316	.12674	.54534
#1	12667.	12132.	440780.
#2	12484.	12110.	444200.

Sample Name: PQL Acquired: 1/22/2015 17:11:16 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**10.62**	**319.2**	**8.734**	**96.01**	**49.35**	**4.836**	**5.095**
Stddev	.13	21.9	.789	3.52	.53	.178	.061
%RSD	1.214	6.876	9.035	3.670	1.069	3.688	1.189
#1	10.53	303.7	8.176	93.52	49.72	4.710	5.053
#2	10.71	334.7	9.292	98.50	48.98	4.963	5.138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**100.7**	**4.961**	**10.45**	**10.16**	**26.75**	**101.5**	**1065.**
Stddev	10.4	.001	.09	.10	.07	5.0	14.
%RSD	10.37	.0265	.8179	.9606	.2556	4.886	1.345
#1	93.35	4.960	10.39	10.23	26.80	105.0	1055.
#2	108.1	4.962	10.51	10.09	26.70	97.98	1076.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**104.2**	**109.7**	**5.327**	**11.05**	**1052.**	**10.46**	**4.735**
Stddev	1.8	.2	.973	.11	17.	.08	.478
%RSD	1.689	.1856	18.26	1.035	1.614	.7245	10.10
#1	103.0	109.9	4.639	11.14	1040.	10.40	5.073
#2	105.5	109.6	6.014	10.97	1064.	10.51	4.397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: PQL Acquired: 1/22/2015 17:11:16 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7.613**	**10.29**	**204.6**	**104.8**	**10.43**	**15.43**	**17.17**
Stddev	.106	.82	32.2	.9	.46	.24	.33
%RSD	1.389	8.004	15.73	.8269	4.419	1.532	1.935
#1	7.539	9.711	227.4	104.2	10.10	15.26	16.93
#2	7.688	10.88	181.9	105.4	10.75	15.60	17.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**9.976**	**20.53**
Stddev	.177	.07
%RSD	1.771	.3190
#1	9.851	20.48
#2	10.10	20.57
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12674.	12137.	443760.
Stddev	49.	.	4728.
%RSD	.38632	.00143	1.0655
#1	12709.	12137.	447100.
#2	12640.	12137.	440420.

Sample Name: LRS1 Acquired: 1/22/2015 17:18:21 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W **2126.**	**107.7**	W **21360.**	W **21910.**	**21050.**	**20210.**	**20430.**
Stddev	19.	5.4	27.	25.	33.	509.	56.
%RSD	.9102	5.028	.1248	.1127	.1556	2.521	.2726
#1	2140.	103.8	21340.	21920.	21030.	19850.	20390.
#2	2112.	111.5	21380.	21890.	21070.	20570.	20470.
Check ?	Chk Warn	None	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value	2000.		20000.	20000.			
Range	5.400%		5.400%	5.400%			

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-15.51**	**19460.**	**21010.**	**20630.**	W **22070.**	**-4.561**	**10.13**
Stddev	3.82	22.	21.	146.	69.	.785	21.61
%RSD	24.63	.1134	.1019	.7061	.3137	17.21	213.4
#1	-18.21	19470.	20990.	20730.	22120.	-5.116	25.41
#2	-12.81	19440.	21020.	20520.	22020.	-4.006	-5.152
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Warn	None	None
Value					20000.		
Range					5.400%		

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**20120.**	**-3021.**	**20930.**	W **5408.**	**19.13**	**20880.**	**21000.**
Stddev	5.	5.	119.	13.	.81	22.	17.
%RSD	.0264	.1542	.5669	.2434	4.235	.1051	.0819
#1	20120.	-3018.	20850.	5398.	19.70	20870.	20990.
#2	20120.	-3025.	21010.	5417.	18.55	20900.	21010.
Check ?	Chk Pass	None	Chk Pass	Chk Warn	None	Chk Pass	Chk Pass
Value				5000.			
Range				5.400%			

Sample Name: LRS1 Acquired: 1/22/2015 17:18:21 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**21070.**	F **22440.**	**384.3**	**20640.**	**20370.**	**20490.**	W **21110.**
Stddev	13.	29.	4.2	12.	173.	33.	13.
%RSD	.0623	.1303	1.084	.0557	.8469	.1609	.0603
#1	21060.	22420.	387.2	20630.	20250.	20510.	21100.
#2	21080.	22460.	381.3	20650.	20500.	20470.	21120.
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value		20000.					20000.
Range		10.40%					5.400%

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**20710.**	**19970.**
Stddev	47.	7.
%RSD	.2271	.0327
#1	20740.	19970.
#2	20680.	19980.
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12788.	11473.	421390.
Stddev	55.	3.	2489.
%RSD	.43359	.02792	.59070
#1	12827.	11475.	419630.
#2	12749.	11471.	423150.

Sample Name: LRS2 Acquired: 1/22/2015 17:23:44 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5.063**	**510200.**	**26.13**	**-4.909**	**9.768**	**16.00**	**1.992**
Stddev	.851	5828.	2.80	2.153	1.999	.16	.129
%RSD	16.82	1.142	10.72	43.86	20.46	.9743	6.469
#1	4.461	506100.	28.11	-3.387	11.18	16.11	2.083
#2	5.665	514300.	24.15	-6.432	8.355	15.89	1.901
Check ?	None	Chk Pass	None	None	None	None	None
Value							
Range							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**476600.**	**-2.208**	**.6335**	**-2.369**	**-1.345**	**236700.**	**291900.**
Stddev	5455.	.502	.1225	.435	.234	2609.	133.
%RSD	1.145	22.74	19.33	18.35	17.43	1.102	.0454
#1	472800.	-1.853	.5469	-2.061	-1.511	234800.	292000.
#2	480500.	-2.562	.7201	-2.676	-1.179	238500.	291800.
Check ?	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**19.27**	**192200.**	**11.42**	**23.67**	**190300.**	**7.087**	**8.086**
Stddev	.69	161.	.02	4.64	590.	.182	.262
%RSD	3.585	.0836	.1320	19.59	.3102	2.562	3.245
#1	18.79	192300.	11.43	26.95	189900.	7.215	8.272
#2	19.76	192100.	11.41	20.39	190700.	6.959	7.901
Check ?	None	Chk Pass	None	None	Chk Pass	None	None
Value							
Range							

Sample Name: LRS2 Acquired: 1/22/2015 17:23:44 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	3.562	29.77	50480.	7.816	8.759	29.05	-.6721
Stddev	.630	5.58	468.	.918	.151	1.84	.9320
%RSD	17.68	18.73	.9270	11.75	1.722	6.330	138.7
#1	4.008	33.71	50150.	8.465	8.652	30.35	-.0130
#2	3.117	25.83	50810.	7.167	8.866	27.75	-1.331
Check ?	None	None	Chk Pass	None	None	None	None
Value							
Range							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.8240	4.610
Stddev	.0335	.606
%RSD	4.065	13.14
#1	.8477	5.038
#2	.8003	4.181
Check ?	None	None
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12329.	10716.	386220.
Stddev	65.	1.	288.
%RSD	.52456	.01069	.07445
#1	12284.	10717.	386430.
#2	12375.	10715.	386020.

Sample Name: ICSA Acquired: 1/22/2015 17:32:19 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	3.914	493300.	3.396	-9.256	2.245	-.1257	.0767
Stddev	1.167	3046.	.214	.373	.015	.2127	.0566
%RSD	29.83	.6175	6.307	4.034	.6601	169.2	73.73
#1	3.089	491200.	3.547	-9.520	2.255	-.2761	.1167
#2	4.740	495500.	3.244	-8.992	2.234	.0247	.0367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	455100.	-2.197	-.4687	-1.686	-3.496	181100.	86.10
Stddev	4132.	.217	.1008	.255	.056	2946.	13.63
%RSD	.9078	9.858	21.51	15.13	1.601	1.627	15.83
#1	452200.	-2.044	-.5400	-1.506	-3.536	179000.	95.74
#2	458000.	-2.350	-.3974	-1.867	-3.457	183200.	76.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	12.12	456000.	.2202	1.829	85.77	3.394	-1.797
Stddev	.57	117.	.6926	.019	6.65	.048	.500
%RSD	4.666	.0257	314.5	1.037	7.749	1.405	27.82
#1	12.52	455900.	-.2695	1.815	90.47	3.361	-2.150
#2	11.72	456100.	.7100	1.842	81.07	3.428	-1.443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 1/22/2015 17:32:19 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.4658**	**3.563**	**55.72**	**3.309**	W **4.752**	**3.588**	**.3441**
Stddev	1.314	2.571	12.82	.299	.031	.109	1.406
%RSD	282.1	72.15	23.01	9.034	.6586	3.047	408.7
#1	.4634	5.381	46.66	3.520	4.730	3.666	-.6504
#2	-1.395	1.745	64.79	3.098	4.774	3.511	1.339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					4.000		
Low Limit					-4.000		

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**-1.447**	**.8198**
Stddev	.014	.1327
%RSD	.9505	16.19
#1	-1.437	.9137
#2	-1.456	.7259
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12177.	10728.	388070.
Stddev	28.	12.	2256.
%RSD	.22882	.11431	.58129
#1	12157.	10737.	389670.
#2	12196.	10719.	386480.

Sample Name: ICSAB Acquired: 1/22/2015 17:36:56 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**227.2**	**504600.**	**101.6**	**514.6**	**514.1**	**531.8**	**523.4**
Stddev	.4	7099.	.9	8.9	3.2	7.6	7.9
%RSD	.1612	1.407	.8562	1.738	.6188	1.424	1.505
#1	226.9	499500.	102.3	508.2	516.3	526.4	517.8
#2	227.4	509600.	101.0	520.9	511.8	537.1	529.0
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**460900.**	**959.7**	**483.5**	**511.4**	**547.0**	**185600.**	**22340.**
Stddev	5038.	5.4	2.0	.1	2.3	2954.	337.
%RSD	1.093	.5665	.4114	.0283	.4166	1.591	1.510
#1	457300.	963.5	484.9	511.6	548.6	183600.	22100.
#2	464400.	955.9	482.1	511.3	545.4	187700.	22580.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**574.5**	**464800.**	**495.7**	**500.7**	**21820.**	**951.0**	**44.23**
Stddev	9.2	2704.	6.7	3.2	265.	3.7	1.98
%RSD	1.598	.5818	1.348	.6319	1.216	.3935	4.470
#1	568.0	466700.	491.0	498.5	21630.	953.6	42.83
#2	581.0	462900.	500.5	503.0	22010.	948.3	45.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICSAB Acquired: 1/22/2015 17:36:56 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	634.4	51.55	2063.	473.5	526.1	507.0	99.94
Stddev	5.7	3.34	19.	2.6	6.7	.3	1.41
%RSD	.9023	6.470	.9170	.5479	1.270	.0590	1.405
#1	638.5	53.90	2049.	475.3	521.4	506.8	100.9
#2	630.4	49.19	2076.	471.7	530.8	507.2	98.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	511.8	962.6
Stddev	.4	2.3
%RSD	.0738	.2366
#1	512.1	964.2
#2	511.5	961.0
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12344.	10602.	383020.
Stddev	71.	27.	285.
%RSD	.57293	.25820	.07432
#1	12394.	10583.	383220.
#2	12294.	10621.	382820.

Sample Name: CCV Acquired: 1/22/2015 17:43:27 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**503.5**	**12520.**	**500.3**	**492.2**	**505.6**	**507.8**	**512.2**
Stddev	.5	82.	1.1	12.1	1.4	4.5	9.1
%RSD	.0994	.6530	.2297	2.457	.2674	.8934	1.777
#1	503.1	12460.	499.5	483.6	504.6	504.6	505.8
#2	503.8	12570.	501.1	500.7	506.5	511.0	518.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**12530.**	**502.5**	**510.6**	**509.7**	**508.5**	**12720.**	**12630.**
Stddev	146.	.8	.7	3.0	.6	224.	205.
%RSD	1.163	.1521	.1333	.5834	.1201	1.761	1.619
#1	12430.	502.0	510.1	507.6	508.1	12570.	12490.
#2	12630.	503.0	511.1	511.8	508.9	12880.	12780.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**505.4**	**12700.**	**505.8**	**514.1**	**12590.**	**507.1**	**504.0**
Stddev	7.6	15.	7.5	4.2	75.	.0	1.7
%RSD	1.499	.1200	1.480	.8145	.5995	.0073	.3393
#1	500.1	12720.	500.5	511.1	12530.	507.1	502.8
#2	510.8	12690.	511.1	517.1	12640.	507.1	505.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 1/22/2015 17:43:27 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**501.8**	**498.4**	**12570.**	**500.3**	**501.7**	**503.3**	**518.4**
Stddev	2.1	7.4	82.	.3	5.5	2.1	.9
%RSD	.4200	1.476	.6507	.0554	1.091	.4256	.1805
#1	503.3	493.2	12510.	500.5	497.8	501.7	519.1
#2	500.3	503.6	12630.	500.1	505.5	504.8	517.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**500.2**	**504.9**
Stddev	1.5	.0
%RSD	.2953	.0006
#1	499.2	504.9
#2	501.3	504.8
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12656.	11878.	434150.
Stddev	25.	19.	1116.
%RSD	.19377	.16250	.25710
#1	12674.	11892.	434940.
#2	12639.	11865.	433360.

Sample Name: CCB Acquired: 1/22/2015 17:48:23 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.4353	13.19	3.207	.8048	1.629	.0574	.0695
Stddev	.1081	14.34	.956	.3650	.223	.2099	.0057
%RSD	24.84	108.7	29.80	45.36	13.67	365.7	8.143
#1	-.5117	23.33	3.883	.5467	1.787	-.0910	.0655
#2	-.3588	3.054	2.531	1.063	1.472	.2058	.0735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	4.786	.0680	-.0011	-.1924	-.3290	4.984	-14.32
Stddev	.542	.0070	.1539	.0105	.1723	2.470	8.34
%RSD	11.32	10.24	13700.	5.437	52.37	49.56	58.23
#1	4.403	.0729	-.1100	-.1998	-.4508	3.237	-8.424
#2	5.169	.0631	.1077	-.1850	-.2071	6.730	-20.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1.834	8.834	1.727	4.142	17.51	.1800	.2051
Stddev	1.165	3.064	.735	.445	.81	.0789	.6307
%RSD	63.50	34.69	42.56	10.74	4.598	43.84	307.5
#1	2.658	6.667	2.246	4.457	18.08	.1242	-.2409
#2	1.011	11.00	1.207	3.827	16.94	.2359	.6510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 1/22/2015 17:48:23 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1.288	1.898	13.01	-.0833	.0456	1.245	.4881
Stddev	.744	.297	11.92	.3031	.1456	.204	.5083
%RSD	57.81	15.66	91.61	364.0	319.2	16.36	104.2
#1	1.814	2.109	4.582	-.2976	.1486	1.389	.8475
#2	.7613	1.688	21.44	.1311	-.0573	1.101	.1286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.0534	.1140
Stddev	.2169	.1472
%RSD	406.5	129.1
#1	.1000	.2181
#2	-.2067	.0100
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12605.	12101.	442440.
Stddev	207.	9.	2167.
%RSD	1.6428	.07579	.48970
#1	12752.	12095.	440910.
#2	12459.	12108.	443970.

Sample Name: PBSIA19ICS1 Acquired: 1/22/2015 17:53:31 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.3593**	**8.838**	**1.677**	**-.0075**	**.8746**	**.0349**	**.1010**
Stddev	.2113	1.270	1.263	.5907	.3176	.0870	.0743
%RSD	58.82	14.37	75.35	7874.	36.31	249.0	73.54
#1	-.5087	9.736	2.570	.4102	1.099	-.0266	.0485
#2	-.2098	7.940	.7833	-.4252	.6500	.0964	.1536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**27.10**	**-.0184**	**-.1011**	**.2968**	**.8671**	**17.63**	**-13.67**
Stddev	1.93	.0375	.0262	.0449	.3594	1.54	19.25
%RSD	7.121	204.3	25.95	15.13	41.45	8.753	140.8
#1	28.46	-.0449	-.1197	.2651	1.121	16.54	-27.29
#2	25.73	.0082	-.0826	.3286	.6129	18.72	-.0640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.8190**	**25.88**	**1.604**	**2.300**	**29.17**	**.2123**	**-.6594**
Stddev	.2341	4.65	.519	.123	2.67	.1097	.3163
%RSD	28.59	17.97	32.34	5.333	9.144	51.71	47.96
#1	.9846	29.17	1.237	2.387	31.05	.1347	-.4358
#2	.6535	22.60	1.971	2.213	27.28	.2899	-.8830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PBSIA19ICS1 Acquired: 1/22/2015 17:53:31 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.2990	.1910	10.04	15.39	.0347	.8401	1.271
Stddev	1.299	2.727	14.24	.50	.2986	.1372	.978
%RSD	434.4	1428.	141.8	3.230	859.6	16.33	76.97
#1	1.217	2.119	-.0267	15.74	-.1764	.7431	1.963
#2	-.6194	-1.737	20.11	15.03	.2459	.9372	.5792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.0514	1.047
Stddev	.1754	.137
%RSD	341.3	13.06
#1	-.1754	.9508
#2	.0727	1.144
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12851.	12215.	448360.
Stddev	153.	25.	1166.
%RSD	1.1902	.20801	.26002
#1	12959.	12233.	447530.
#2	12743.	12197.	449180.

Sample Name: LCSOIA19ICS1 Acquired: 1/22/2015 17:58:40 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**51.18**	**2146.**	**101.5**	**1.287**	**489.2**	**2090.**	**53.01**
Stddev	.05	34.	.2	.469	.7	24.	.64
%RSD	.1048	1.586	.2029	36.42	.1392	1.153	1.201
#1	51.14	2122.	101.7	.9554	489.7	2073.	52.56
#2	51.22	2170.	101.4	1.618	488.7	2107.	53.46
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2601.**	**254.8**	**526.7**	**214.5**	**263.0**	**1050.**	**10230.**
Stddev	19.	.3	.5	.6	.2	12.	112.
%RSD	.7457	.1030	.0916	.2994	.0882	1.125	1.093
#1	2588.	255.0	527.0	214.0	263.2	1041.	10160.
#2	2615.	254.6	526.3	214.9	262.9	1058.	10310.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**513.4**	**5078.**	**526.7**	**108.8**	**7778.**	**527.0**	**101.3**
Stddev	5.0	17.	6.9	.5	97.	.6	.2
%RSD	.9836	.3296	1.308	.4219	1.242	.1073	.1688
#1	509.8	5090.	521.8	108.5	7709.	527.4	101.4
#2	517.0	5066.	531.6	109.1	7846.	526.6	101.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: LCSOIA19ICS1 Acquired: 1/22/2015 17:58:40 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**101.9**	**101.1**	**1029.**	**524.0**	**514.4**	**493.6**	**111.7**
Stddev	.2	1.5	26.	1.2	4.6	1.3	.9
%RSD	.1502	1.490	2.507	.2365	.9037	.2593	.8360
#1	102.0	100.00	1047.	524.9	511.1	492.7	111.0
#2	101.8	102.1	1011.	523.1	517.7	494.5	112.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**528.2**	**517.6**
Stddev	.7	1.6
%RSD	.1377	.3069
#1	527.6	518.7
#2	528.7	516.5
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12679.	11979.	433360.
Stddev	102.	26.	25.
%RSD	.80519	.21599	.00574
#1	12751.	11960.	433380.
#2	12607.	11997.	433340.

Sample Name: LC2OIA19ICS1 Acquired: 1/22/2015 18:03:42 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**49.97**	**2110.**	**99.41**	**1.051**	**480.3**	**2030.**	**51.46**
Stddev	.29	51.	1.58	.067	1.4	23.	.48
%RSD	.5821	2.409	1.587	6.340	.2879	1.136	.9369
#1	50.18	2074.	98.29	1.004	479.3	2014.	51.12
#2	49.76	2146.	100.5	1.098	481.3	2046.	51.81
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2583.**	**255.2**	**513.8**	**214.2**	**253.2**	**1055.**	**10010.**
Stddev	22.	.2	.8	.7	1.6	10.	104.
%RSD	.8483	.0848	.1596	.3167	.6358	.9358	1.038
#1	2567.	255.1	513.2	214.7	254.4	1048.	9937.
#2	2598.	255.4	514.3	213.7	252.1	1062.	10080.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**509.6**	**5066.**	**517.9**	**105.8**	**7755.**	**519.0**	**102.3**
Stddev	4.9	3.	6.5	1.0	106.	1.0	.9
%RSD	.9529	.0519	1.262	.9026	1.363	.2016	.8567
#1	506.1	5064.	513.3	105.1	7680.	518.2	103.0
#2	513.0	5068.	522.5	106.5	7830.	519.7	101.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: LC2OIA19ICS1 Acquired: 1/22/2015 18:03:42 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	101.1	102.4	973.4	520.7	505.8	479.5	110.6
Stddev	2.2	1.3	.5	2.4	5.1	2.8	.3
%RSD	2.199	1.253	.0558	.4545	1.009	.5774	.3026
#1	99.51	101.5	973.8	519.1	502.2	481.4	110.9
#2	102.7	103.3	973.0	522.4	509.4	477.5	110.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	507.7	508.2
Stddev	4.2	1.1
%RSD	.8242	.2243
#1	510.6	507.4
#2	504.7	509.0
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12546.	11974.	435900.
Stddev	37.	13.	3374.
%RSD	.29540	.10884	.77394
#1	12573.	11983.	433520.
#2	12520.	11965.	438290.

Sample Name: SI0209-001 Acquired: 1/22/2015 18:08:44 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.3478	104.9	.3834	.0647	117.0	29.99	.1447
Stddev	.0451	6.4	.4897	.6237	1.1	.05	.0643
%RSD	12.97	6.132	127.7	964.5	.9168	.1661	44.40
#1	-.3159	109.5	.7297	-.3764	116.2	30.02	.1902
#2	-.3797	100.4	.0371	.5057	117.8	29.95	.0993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	767.1	.0371	.0706	3.588	43.65	123.9	50.47
Stddev	8.1	.0161	.0322	.366	.52	6.6	3.55
%RSD	1.056	43.40	45.59	10.19	1.186	5.353	7.035
#1	761.4	.0484	.0934	3.846	44.02	119.2	47.96
#2	772.8	.0257	.0479	3.329	43.28	128.6	52.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	2.459	43.66	16.05	2.210	256.2	5.601	16.56
Stddev	1.007	3.86	.43	.125	.5	.195	.39
%RSD	40.95	8.841	2.707	5.650	.1790	3.480	2.375
#1	1.747	46.38	15.74	2.298	256.6	5.739	16.28
#2	3.171	40.93	16.36	2.121	255.9	5.463	16.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SI0209-001 Acquired: 1/22/2015 18:08:44 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.6093	-.0800	286.4	16.38	1.729	2.150	2.273
Stddev	1.050	.5230	1.6	.82	.034	.198	.814
%RSD	172.3	654.1	.5609	5.017	1.964	9.210	35.81
#1	-.1330	-.4497	285.3	16.96	1.753	2.010	1.697
#2	1.352	.2898	287.6	15.80	1.705	2.290	2.848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.0336	377.0
Stddev	.1125	.7
%RSD	335.2	.1934
#1	.1132	376.4
#2	-.0460	377.5
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	13207.	12327.	454360.
Stddev	45.	8.	1886.
%RSD	.34177	.06589	.41514
#1	13175.	12333.	453030.
#2	13239.	12321.	455690.

Sample Name: SI0219-001 Acquired: 1/22/2015 18:13:50 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.1899	6.139	5.161	-.4619	5.002	.9224	.1178
Stddev	.0130	4.598	.032	.1833	.191	.1506	.0943
%RSD	6.852	74.89	.6240	39.69	3.812	16.33	80.05
#1	-.1807	2.888	5.184	-.3323	5.136	.8159	.0511
#2	-.1990	9.390	5.138	-.5915	4.867	1.029	.1845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W 31100.	-.0853	-.0502	.8470	3.670	9.185	3791.
Stddev	442.	.0511	.1259	.1903	.066	2.140	41.
%RSD	1.422	59.91	250.6	22.47	1.803	23.30	1.091
#1	30790.	-.0492	.0388	.9816	3.623	7.672	3762.
#2	31410.	-.1214	-.1392	.7125	3.717	10.70	3820.
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	25000.						
Low Limit	-100.0						

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	17.95	10520.	1.324	-.6547	11310.	.1499	-.2622
Stddev	.72	25.	.797	.4324	138.	.0880	.8261
%RSD	4.022	.2355	60.18	66.05	1.221	58.73	315.1
#1	17.44	10510.	.7608	-.3489	11210.	.2121	.3220
#2	18.46	10540.	1.888	-.9604	11410.	.0876	-.8463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SI0219-001 Acquired: 1/22/2015 18:13:50 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.2240	.1986	5803.	-.5989	162.2	-.2505	1.950
Stddev	.2933	2.178	96.	.8416	1.7	.1214	.854
%RSD	131.0	1097.	1.647	140.5	1.020	48.45	43.79
#1	.0166	1.739	5736.	-.0037	161.0	-.3364	2.553
#2	.4314	-1.341	5871.	-1.194	163.4	-.1647	1.346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.5074	5.212
Stddev	.1081	.021
%RSD	21.31	.4090
#1	.5838	5.197
#2	.4309	5.227
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12850.	12054.	437180.
Stddev	47.	37.	2163.
%RSD	.36792	.30301	.49486
#1	12884.	12080.	438710.
#2	12817.	12028.	435650.

Sample Name: SI0318-001 Acquired: 1/22/2015 18:18:55 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.3036	15.13	150.5	.0105	37.04	.5011	-.0360
Stddev	.3205	8.62	5.0	.2944	.12	.4633	.0634
%RSD	105.5	56.96	3.349	2804.	.3210	92.46	176.1
#1	-.5302	9.039	146.9	-.1977	37.13	.1735	.0088
#2	-.0770	21.23	154.1	.2187	36.96	.8287	-.0809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	2327.	.0998	.0209	-.3816	4.436	-.4101	2136.
Stddev	28.	.0150	.1794	.0045	.236	1.608	30.
%RSD	1.195	15.03	859.6	1.175	5.322	392.1	1.420
#1	2307.	.1104	.1477	-.3785	4.603	.7269	2115.
#2	2346.	.0892	-.1060	-.3848	4.269	-1.547	2157.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	2.417	778.4	15.28	-.7047	W 55700.	.1906	-.2374
Stddev	.113	3.9	.14	.1095	636.	.2240	.8017
%RSD	4.693	.5012	.9467	15.54	1.142	117.5	337.8
#1	2.337	775.6	15.18	-.6272	55250.	.0322	-.8043
#2	2.497	781.1	15.38	-.7821	56150.	.3490	.3295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					25000.		
Low Limit					-1000.		

Sample Name: SI0318-001 Acquired: 1/22/2015 18:18:55 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1.630	.2311	5166.	.5976	37.18	.2443	1.811
Stddev	.422	2.796	89.	.4049	.41	.0430	.738
%RSD	25.88	1210.	1.727	67.76	1.093	17.62	40.76
#1	1.928	-1.746	5103.	.3113	36.89	.2747	1.289
#2	1.332	2.208	5229.	.8840	37.47	.2138	2.333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.2133	3.295
Stddev	.1506	.061
%RSD	70.59	1.838
#1	.3197	3.252
#2	.1068	3.338
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12698.	11947.	434790.
Stddev	96.	24.	2032.
%RSD	.75476	.20165	.46743
#1	12630.	11964.	436220.
#2	12765.	11930.	433350.

Sample Name: SI0344-001 Acquired: 1/22/2015 18:24:01 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.3993	53.11	25.17	.1397	37.03	2.016	.0289
Stddev	.2292	2.99	.34	.1184	.39	.064	.0601
%RSD	57.42	5.634	1.336	84.71	1.064	3.167	208.0
#1	-.2372	51.00	25.41	.0560	37.31	2.062	.0714
#2	-.5614	55.23	24.93	.2234	36.75	1.971	-.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	11350.	-.0983	.0279	.0449	3.809	94.87	1670.
Stddev	88.	.0016	.0695	.0086	.435	.59	4.
%RSD	.7729	1.621	248.9	19.05	11.43	.6261	.2260
#1	11290.	-.0972	.0770	.0510	3.501	95.29	1672.
#2	11410.	-.0994	-.0212	.0389	4.116	94.45	1667.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1.729	1865.	7.317	-.7877	W 49190.	1.035	.1898
Stddev	.134	6.	1.214	.1456	305.	.102	.1397
%RSD	7.767	.3172	16.59	18.48	.6196	9.851	73.60
#1	1.824	1861.	6.459	-.8906	48970.	1.107	.0910
#2	1.634	1869.	8.175	-.6847	49400.	.9627	.2886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					25000.		
Low Limit					-1000.		

Sample Name: SI0344-001 Acquired: 1/22/2015 18:24:01 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.9274	-1.373	4090.	-.2159	125.1	3.273	.7613
Stddev	.5094	.111	31.	.0201	.9	.017	1.695
%RSD	54.93	8.080	.7529	9.317	.7320	.5261	222.6
#1	.5672	-1.451	4068.	-.2017	124.5	3.285	-.4370
#2	1.288	-1.295	4112.	-.2301	125.8	3.261	1.960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.1184	5.492
Stddev	.1412	.104
%RSD	119.3	1.892
#1	.0185	5.565
#2	.2182	5.418
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12765.	11911.	431310.
Stddev	2.	31.	3282.
%RSD	.01783	.25901	.76092
#1	12766.	11933.	433630.
#2	12763.	11889.	428990.

Sample Name: SI0349-001 Acquired: 1/22/2015 18:29:08 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.4573**	**1.927**	**.8417**	**-.0033**	**7.900**	**1.013**	**.0655**
Stddev	.1912	1.904	.4184	.0592	.372	.297	.0342
%RSD	41.82	98.79	49.70	1794.	4.711	29.37	52.20
#1	-.3220	3.274	.5459	.0385	7.636	1.223	.0413
#2	-.5925	.5810	1.138	-.0451	8.163	.8024	.0897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9560.**	**-.0506**	**.1635**	**-.2816**	**70.74**	**-4.037**	**1875.**
Stddev	135.	.0208	.0940	.1066	.66	.707	33.
%RSD	1.407	41.10	57.46	37.88	.9333	17.50	1.752
#1	9465.	-.0653	.0971	-.2062	70.27	-3.537	1851.
#2	9655.	-.0359	.2300	-.3570	71.20	-4.536	1898.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.6115**	**3049.**	**7.831**	**-1.259**	**14190.**	**.3863**	**-.1362**
Stddev	.1631	4.	.728	.191	228.	.1800	.1572
%RSD	26.67	.1443	9.291	15.20	1.608	46.59	115.4
#1	.7268	3052.	8.345	-1.124	14020.	.2590	-.0251
#2	.4962	3045.	7.316	-1.395	14350.	.5136	-.2473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SI0349-001 Acquired: 1/22/2015 18:29:08 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.6251	.4487	4548.	.2792	64.04	-.1016	1.638
Stddev	.6962	.9083	93.	.7521	.75	.0673	1.443
%RSD	111.4	202.4	2.047	269.4	1.166	66.25	88.13
#1	-.1328	1.091	4482.	-.2526	63.51	-.1492	.6172
#2	-1.117	-.1935	4613.	.8110	64.57	-.0540	2.658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.0129	20.21
Stddev	.0793	.01
%RSD	613.8	.0725
#1	-.0690	20.20
#2	.0432	20.22
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	13009.	12125.	446370.
Stddev	48.	25.	2086.
%RSD	.36603	.20788	.46730
#1	13043.	12142.	447840.
#2	12975.	12107.	444890.

Sample Name: PBSIA16ICS1 Acquired: 1/22/2015 18:34:15 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.3889**	**27.63**	**1.450**	**-.4457**	**.4354**	**.1461**	**.0011**
Stddev	.0301	7.41	1.002	.9185	.2110	.1315	.1492
%RSD	7.743	26.83	69.09	206.1	48.45	89.96	13380.
#1	-.4102	32.87	.7417	.2038	.5846	.2391	-.1044
#2	-.3676	22.39	2.158	-1.095	.2863	.0532	.1066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**36.09**	**-.1009**	**-.0777**	**.3163**	**3.528**	**50.69**	**-8.202**
Stddev	6.84	.0063	.1029	.0183	.293	.97	33.00
%RSD	18.94	6.282	132.4	5.780	8.311	1.920	402.3
#1	40.92	-.0964	-.0049	.3033	3.736	50.00	-31.54
#2	31.25	-.1054	-.1505	.3292	3.321	51.38	15.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.592**	**14.49**	**1.804**	**.2489**	**42.22**	**.5482**	**.0999**
Stddev	1.720	3.84	.136	.0134	1.10	.0886	.1499
%RSD	66.36	26.48	7.544	5.386	2.596	16.17	150.1
#1	1.376	11.77	1.708	.2584	43.00	.4855	.2059
#2	3.808	17.20	1.901	.2394	41.45	.6108	-.0061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PBSIA16ICS1 Acquired: 1/22/2015 18:34:15 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.7746	-.9763	21.68	18.92	.1276	.9056	.8234
Stddev	.4168	.8202	7.23	.07	.0185	.0248	.7342
%RSD	53.80	84.01	33.34	.3719	14.51	2.743	89.17
#1	.4799	-.3964	16.57	18.97	.1145	.8880	.3042
#2	1.069	-1.556	26.79	18.87	.1407	.9232	1.343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.2017	2.917
Stddev	.1468	.020
%RSD	72.78	.6954
#1	-.0979	2.903
#2	-.3055	2.932
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12866.	12170.	449930.
Stddev	77.	28.	6713.
%RSD	.59678	.22899	1.4919
#1	12812.	12190.	445180.
#2	12920.	12150.	454680.

Sample Name: LCSOIA16ICS1 Acquired: 1/22/2015 18:39:24 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**49.18**	**2066.**	**98.04**	**1.412**	**478.7**	**2009.**	**51.26**
Stddev	.52	44.	.61	.893	.0	20.	.59
%RSD	1.053	2.107	.6228	63.23	.0078	1.006	1.144
#1	49.55	2035.	98.47	.7806	478.6	1995.	50.84
#2	48.82	2096.	97.61	2.043	478.7	2024.	51.67
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2535.**	**247.6**	**509.1**	**205.0**	**252.7**	**1018.**	**9882.**
Stddev	24.	1.1	.6	.2	.5	13.	98.
%RSD	.9366	.4639	.1184	.0983	.2115	1.291	.9937
#1	2518.	248.4	509.5	204.8	253.1	1008.	9813.
#2	2552.	246.8	508.6	205.1	252.3	1027.	9952.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**501.2**	**4927.**	**506.1**	**104.0**	**7561.**	**509.4**	**99.07**
Stddev	2.0	23.	5.3	.9	76.	1.5	.32
%RSD	.3921	.4593	1.055	.8323	1.011	.3034	.3276
#1	499.8	4943.	502.3	103.4	7507.	510.5	99.30
#2	502.5	4911.	509.9	104.7	7615.	508.3	98.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: LCSOIA16ICS1 Acquired: 1/22/2015 18:39:24 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**99.35**	**100.4**	**917.7**	**512.3**	**499.3**	**474.2**	**109.2**
Stddev	.64	2.2	15.3	3.3	4.1	1.0	.3
%RSD	.6402	2.145	1.663	.6525	.8116	.2047	.2419
#1	99.80	98.86	906.9	514.7	496.5	474.9	109.0
#2	98.90	101.9	928.5	510.0	502.2	473.6	109.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**502.5**	**503.3**
Stddev	.5	.1
%RSD	.0918	.0217
#1	502.1	503.4
#2	502.8	503.2
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12542.	11912.	433500.
Stddev	32.	20.	1546.
%RSD	.25403	.17164	.35668
#1	12565.	11897.	432410.
#2	12520.	11926.	434590.

Sample Name: CCV Acquired: 1/22/2015 18:44:25 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**505.2**	**12470.**	**502.1**	**493.6**	**507.5**	**507.6**	**513.2**
Stddev	2.5	154.	3.6	12.2	1.3	5.3	6.5
%RSD	.5024	1.237	.7247	2.478	.2530	1.038	1.275
#1	503.4	12360.	499.6	484.9	506.6	503.9	508.6
#2	507.0	12580.	504.7	502.2	508.4	511.4	517.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**12520.**	**503.8**	**513.1**	**510.9**	**510.3**	**12700.**	**12670.**
Stddev	86.	.2	.5	3.3	3.5	167.	170.
%RSD	.6863	.0473	.0973	.6394	.6791	1.312	1.342
#1	12460.	504.0	513.4	508.5	507.8	12580.	12550.
#2	12580.	503.7	512.7	513.2	512.7	12820.	12790.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**504.4**	**12650.**	**507.4**	**508.8**	**12600.**	**508.2**	**505.6**
Stddev	5.0	2.	5.4	4.9	137.	.1	.6
%RSD	.9879	.0180	1.062	.9556	1.090	.0157	.1210
#1	500.9	12650.	503.6	505.3	12500.	508.2	505.2
#2	507.9	12640.	511.2	512.2	12690.	508.1	506.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 1/22/2015 18:44:25 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**507.0**	**500.2**	**12560.**	**500.1**	**502.4**	**504.8**	**520.5**
Stddev	1.0	10.8	156.	.6	3.7	4.0	.4
%RSD	.1963	2.161	1.241	.1281	.7305	.7966	.0711
#1	506.3	492.5	12450.	499.6	499.8	501.9	520.2
#2	507.7	507.8	12670.	500.5	505.0	507.6	520.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**503.6**	**506.6**
Stddev	2.3	.4
%RSD	.4664	.0832
#1	502.0	506.9
#2	505.3	506.3
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12807.	11926.	434420.
Stddev	47.	15.	1661.
%RSD	.36618	.12414	.38234
#1	12841.	11916.	435590.
#2	12774.	11937.	433240.

Sample Name: CCB Acquired: 1/22/2015 18:49:20 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.1811	-4.421	3.078	.6271	1.047	-.1810	.1584
Stddev	.2537	10.89	.376	.4728	.188	.1060	.0371
%RSD	140.1	246.3	12.20	75.40	17.94	58.57	23.40
#1	-.3604	3.277	3.344	.9614	1.179	-.1061	.1846
#2	-.0017	-12.12	2.813	.2928	.9139	-.2560	.1322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	4.141	.1199	.0234	-.0027	-.1266	-.2266	10.56
Stddev	6.278	.0486	.0627	.4295	.1554	5.260	10.35
%RSD	151.6	40.52	268.1	15660.	122.8	2321.	97.98
#1	8.580	.1543	-.0210	-.3064	-.0167	3.493	3.244
#2	-.2986	.0856	.0677	.3009	-.2365	-3.946	17.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	2.040	2.918	.7491	3.354	18.91	.2376	-.7581
Stddev	2.151	.022	.4961	.564	2.50	.2329	.7726
%RSD	105.4	.7668	66.22	16.81	13.24	98.04	101.9
#1	3.561	2.934	.3984	3.752	20.68	.4023	-.2117
#2	.5194	2.902	1.100	2.955	17.14	.0729	-1.304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 1/22/2015 18:49:20 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.3612	3.439	7.535	.2228	.0932	1.102	.8014
Stddev	.3829	.253	1.637	.1492	.2319	.220	.2787
%RSD	106.0	7.346	21.73	66.95	248.8	19.97	34.77
#1	-.0904	3.260	6.377	.3283	.2572	1.257	.6044
#2	-.6319	3.617	8.693	.1173	-.0708	.9462	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.1239	.0968
Stddev	.1705	.0876
%RSD	137.6	90.41
#1	.2445	.1588
#2	.0033	.0349
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12736.	12115.	445440.
Stddev	135.	6.	155.
%RSD	1.0619	.04920	.03477
#1	12831.	12111.	445330.
#2	12640.	12119.	445550.

Sample Name: SI0220-001 Acquired: 1/22/2015 18:54:27 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	5.375	6170.	10.41	-.2124	45.53	254.4	.3419
Stddev	.047	72.	.98	.5548	.42	3.5	.0317
%RSD	.8824	1.165	9.449	261.2	.9199	1.392	9.274
#1	5.342	6119.	9.712	-.6047	45.82	251.9	.3643
#2	5.409	6221.	11.10	.1799	45.23	256.9	.3195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	17960.	4.968	5.149	40.42	W 1001.	21420.	24850.
Stddev	225.	.121	.057	1.59	32.	336.	210.
%RSD	1.250	2.433	1.101	3.920	3.149	1.568	.8437
#1	17810.	5.054	5.189	39.30	978.9	21180.	24700.
#2	18120.	4.883	5.109	41.54	1024.	21660.	25000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					1000.		
Low Limit					-25.00		

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	5.346	14860.	217.5	12.86	13630.	37.65	51.26
Stddev	.017	45.	2.5	.31	151.	.07	.43
%RSD	.3222	.2997	1.163	2.383	1.107	.1941	.8322
#1	5.358	14890.	215.7	13.08	13530.	37.70	50.96
#2	5.333	14830.	219.3	12.64	13740.	37.60	51.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SI0220-001 Acquired: 1/22/2015 18:54:27 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	2.974	10.94	1980.	67.42	241.0	207.2	.0862
Stddev	1.173	.84	27.	1.46	3.2	5.6	.3969
%RSD	39.46	7.687	1.360	2.162	1.312	2.684	460.4
#1	3.804	10.35	1961.	66.39	238.8	203.3	-.1944
#2	2.144	11.54	1999.	68.45	243.3	211.1	.3669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	17.83	884.7
Stddev	.97	1.7
%RSD	5.416	.1938
#1	17.14	883.5
#2	18.51	885.9
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12822.	11947.	428670.
Stddev	10.	17.	13617.
%RSD	.08136	.14470	3.1766
#1	12814.	11959.	438290.
#2	12829.	11935.	419040.

Sample Name: PBWIA21ICW1 Acquired: 1/22/2015 18:59:29 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.5517	8.907	.2405	.2415	.0863	.4390	-.0747
Stddev	.0030	8.251	.6792	.4779	.5016	.1264	.0321
%RSD	.5400	92.63	282.4	197.9	581.3	28.79	43.06
#1	-.5496	3.073	.7207	-.0964	.4410	.3496	-.0519
#2	-.5538	14.74	-.2398	.5794	-.2684	.5284	-.0974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-1.296	-.0160	.0085	-.1971	.5233	3.617	27.97
Stddev	.537	.0026	.0494	.1076	.1573	4.742	38.99
%RSD	41.44	16.25	582.6	54.57	30.06	131.1	139.4
#1	-.9163	-.0141	-.0264	-.2731	.4121	6.970	.4075
#2	-1.676	-.0178	.0434	-.1210	.6346	.2640	55.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.3881	10.31	.7414	-.7192	28.10	.1855	-.4912
Stddev	1.401	6.57	.5530	.1171	11.93	.0880	.0506
%RSD	360.9	63.69	74.59	16.28	42.46	47.45	10.30
#1	1.378	14.96	1.132	-.8020	36.53	.1233	-.4554
#2	-.6023	5.669	.3503	-.6364	19.66	.2478	-.5269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PBWIA21ICW1 Acquired: 1/22/2015 18:59:29 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.1413	-.9196	4.746	-.5794	.2332	.4985	2.502
Stddev	.2225	1.139	6.859	.1786	.0685	.0754	.298
%RSD	157.5	123.8	144.5	30.81	29.37	15.13	11.89
#1	-.0161	-1.725	9.596	-.4532	.2817	.5519	2.712
#2	.2986	-.1145	-.1038	-.7057	.1848	.4452	2.291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.0616	.7256
Stddev	.1857	.0869
%RSD	301.6	11.98
#1	-.1929	.7870
#2	.0698	.6641
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	13096.	12273.	458360.
Stddev	82.	31.	563.
%RSD	.62531	.25458	.12281
#1	13154.	12296.	458750.
#2	13038.	12251.	457960.

Sample Name: LCSWIA21ICW1 Acquired: 1/22/2015 19:04:37 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 2.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**52.23**	**2245.**	**98.63**	**.2241**	**502.7**	W **2137.**	**54.08**
Stddev	.18	31.	.66	1.249	2.7	25.	.42
%RSD	.3520	1.374	.6702	557.5	.5460	1.165	.7759
#1	52.36	2223.	98.17	1.108	500.8	2119.	53.79
#2	52.10	2267.	99.10	-.6594	504.7	2154.	54.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						1000.	
Low Limit						-5.000	

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2561.**	**252.4**	**547.1**	**215.6**	**267.4**	**1055.**	**10090.**
Stddev	23.	.3	.8	.4	.3	14.	54.
%RSD	.9116	.1088	.1530	.1820	.0966	1.356	.5362
#1	2545.	252.2	546.5	215.9	267.6	1045.	10060.
#2	2578.	252.6	547.7	215.3	267.2	1065.	10130.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**516.8**	**5164.**	**540.9**	**97.78**	**7713.**	**545.7**	**102.3**
Stddev	4.1	20.	6.9	3.29	69.	.4	.5
%RSD	.8008	.3919	1.278	3.363	.8942	.0673	.4860
#1	513.9	5150.	536.0	95.45	7664.	545.4	102.6
#2	519.7	5178.	545.8	100.1	7762.	545.9	101.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: LCSWIA21ICW1 Acquired: 1/22/2015 19:04:37 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 2.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**98.87**	**93.09**	**1007.**	**504.6**	**513.6**	**475.4**	**114.9**
Stddev	5.18	3.68	7.	2.3	6.4	.4	1.2
%RSD	5.240	3.953	.7296	.4531	1.248	.0788	1.018
#1	95.20	90.49	1012.	506.3	509.0	475.7	115.7
#2	102.5	95.69	1002.	503.0	518.1	475.1	114.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**529.7**	**548.2**
Stddev	3.1	.6
%RSD	.5882	.1083
#1	531.9	547.8
#2	527.5	548.6
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12934.	12098.	444460.
Stddev	64.	21.	218.
%RSD	.49467	.17381	.04902
#1	12979.	12113.	444620.
#2	12888.	12083.	444310.

Sample Name: SI0386-001 Acquired: 1/22/2015 19:09:40 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 5.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-4.251**	**9400.**	**-1.523**	**-5.618**	W **13170.**	**498.5**
Stddev	.023	87.	1.772	1.098	29.	4.3
%RSD	.5426	.9275	116.3	19.54	.2173	.8686
#1	-4.234	9339.	-.2700	-6.395	13150.	495.4
#2	-4.267	9462.	-2.776	-4.842	13190.	501.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit					1000.	
Low Limit					-50.00	

Elem	Be3130_R	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.0236**	W **741500.**	**-.6501**	**5.770**	**3.286**	**19.27**
Stddev	.1787	8029.	.4016	1.295	.288	1.38
%RSD	758.5	1.083	61.78	22.45	8.760	7.178
#1	-.1028	735800.	-.9341	4.854	3.489	20.25
#2	.1499	747200.	-.3661	6.686	3.082	18.30
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		25000.				
Low Limit		-100.0				

Elem	Fe2599_R	K_7664_R	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6935.**	**69900.**	**225.9**	**337.8**	**55.59**	**4564.**
Stddev	148.	589.	8.3	19.9	.67	61.
%RSD	2.128	.8424	3.669	5.901	1.209	1.345
#1	6831.	69490.	220.1	351.9	55.11	4520.
#2	7040.	70320.	231.8	323.7	56.07	4607.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: SI0386-001 Acquired: 1/22/2015 19:09:40 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 5.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895_R	Ni2316_A	Pb2203_A	Sb2068_A	Se1960_A	Si2516_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	F 1021000.	39.84	33.59	19.84	18.22	2534.
Stddev	2507.	.19	1.26	2.74	7.18	7.
%RSD	.2454	.4825	3.741	13.80	39.42	.2771
#1	1020000.	39.70	32.70	17.90	23.30	2529.
#2	1023000.	39.98	34.48	21.77	13.14	2539.
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	200000.					
Low Limit	-1000.					

Elem	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A	V_2924_A	Zn2062_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	6.711	2872.	2.131	.2634	10.32	75.54
Stddev	3.532	26.	1.682	5.652	1.28	.85
%RSD	52.64	.8973	78.90	2146.	12.38	1.124
#1	4.213	2854.	3.321	-3.733	11.23	74.94
#2	9.208	2890.	.9423	4.260	9.420	76.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12589.	10998.	405490.
Stddev	21.	13.	1396.
%RSD	.16661	.11927	.34431
#1	12603.	10989.	404500.
#2	12574.	11007.	406480.

Sample Name: PBWIA14ICW1 Acquired: 1/22/2015 19:14:43 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.2552	9.376	1.131	-.4969	.6385	.2667	.0214
Stddev	.0726	6.868	.061	1.338	.2046	.3050	.0789
%RSD	28.47	73.25	5.428	269.4	32.04	114.4	368.2
#1	-.3065	14.23	1.087	.4495	.7832	.0510	-.0344
#2	-.2038	4.520	1.174	-1.443	.4938	.4824	.0772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	44.10	-.0544	-.0545	-.1856	.0825	-.8974	-5.249
Stddev	18.67	.0151	.1255	.0354	.0463	4.688	11.82
%RSD	42.34	27.64	230.3	19.08	56.08	522.4	225.1
#1	30.90	-.0438	.0342	-.2107	.1152	-4.213	-13.60
#2	57.31	-.0651	-.1432	-.1606	.0498	2.418	3.106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1.594	10.10	1.650	3.692	168.9	.0548	-.1484
Stddev	.164	5.41	.338	.432	30.4	.0520	.0984
%RSD	10.31	53.60	20.47	11.70	18.02	94.83	66.31
#1	1.478	6.272	1.889	3.998	147.4	.0916	-.2180
#2	1.710	13.93	1.411	3.386	190.5	.0181	-.0788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PBWIA14ICW1 Acquired: 1/22/2015 19:14:43 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.3189**	**-2.301**	**14.33**	**.4081**	**.2378**	**.3218**	**1.312**
Stddev	.3694	.621	1.74	.0378	.0173	.2092	.027
%RSD	115.8	26.98	12.12	9.270	7.262	65.03	2.076
#1	-.0577	-1.862	15.56	.4349	.2500	.4697	1.292
#2	-.5801	-2.740	13.10	.3814	.2256	.1738	1.331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**-.2671**	**1.956**
Stddev	.2917	.053
%RSD	109.2	2.700
#1	-.0608	1.919
#2	-.4733	1.993
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	13114.	12295.	460510.
Stddev	105.	31.	9.
%RSD	.80422	.24837	.00190
#1	13188.	12317.	460510.
#2	13039.	12273.	460500.

Sample Name: LCSWIA14ICW1 Acquired: 1/22/2015 19:19:51 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 2.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**52.21**	**2202.**	**99.91**	**.0148**	**499.4**	W **2128.**	**54.36**
Stddev	.37	20.	2.29	.8401	3.2	21.	.50
%RSD	.7078	.8987	2.293	5693.	.6458	.9662	.9167
#1	52.47	2188.	98.29	-.5793	497.1	2113.	54.01
#2	51.95	2216.	101.5	.6088	501.7	2142.	54.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						1000.	
Low Limit						-5.000	

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2567.**	**253.1**	**547.1**	**213.7**	**267.1**	**1064.**	**10110.**
Stddev	22.	.6	.5	1.8	3.9	22.	24.
%RSD	.8432	.2381	.0920	.8300	1.442	2.058	.2402
#1	2552.	252.7	546.8	214.9	269.8	1049.	10090.
#2	2583.	253.6	547.5	212.4	264.4	1080.	10130.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**506.7**	**5204.**	**533.9**	**103.4**	**7746.**	**545.2**	**103.3**
Stddev	3.6	8.	11.6	2.2	103.	.4	.0
%RSD	.7123	.1544	2.171	2.137	1.325	.0705	.0453
#1	504.2	5199.	525.7	101.9	7674.	545.0	103.4
#2	509.3	5210.	542.0	105.0	7819.	545.5	103.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: LCSWIA14ICW1 Acquired: 1/22/2015 19:19:51 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 2.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**103.1**	**92.77**	**1034.**	**497.6**	**505.7**	**469.9**	**114.6**
Stddev	1.3	7.31	21.	1.6	7.3	3.7	1.4
%RSD	1.263	7.883	2.041	.3309	1.452	.7929	1.202
#1	102.2	87.60	1049.	496.4	500.5	472.5	115.6
#2	104.0	97.94	1019.	498.8	510.9	467.2	113.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**528.2**	**539.7**
Stddev	5.2	1.1
%RSD	.9785	.2071
#1	531.8	538.9
#2	524.5	540.5
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12922.	12079.	446150.
Stddev	28.	18.	3214.
%RSD	.21406	.14589	.72031
#1	12941.	12091.	443880.
#2	12902.	12066.	448430.

Sample Name: SI0226-001 Acquired: 1/22/2015 19:24:54 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 5.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.9524	3992.	-5.578	-7.285	W 14950.	212.3
Stddev	1.250	55.	7.683	.952	25.	2.2
%RSD	131.3	1.375	137.7	13.06	.1655	1.046
#1	-1.837	4030.	-.1448	-7.958	14930.	210.7
#2	-.0683	3953.	-11.01	-6.612	14970.	213.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit					1000.	
Low Limit					-50.00	

Elem	Be3130_R	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.0798	W 669000.	-.4210	8.545	6.191	53.32
Stddev	.6864	7180.	.1248	.813	.039	.75
%RSD	860.3	1.073	29.64	9.509	.6317	1.404
#1	-.5652	663900.	-.5093	7.970	6.218	53.85
#2	.4056	674100.	-.3328	9.119	6.163	52.80
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		25000.				
Low Limit		-100.0				

Elem	Fe2599_R	K_7664_R	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	15130.	63730.	140.2	1608.	108.9	3414.
Stddev	339.	488.	11.2	20.	.9	41.
%RSD	2.239	.7661	7.994	1.247	.8250	1.194
#1	14890.	63390.	132.3	1594.	109.5	3385.
#2	15370.	64080.	148.1	1622.	108.3	3443.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: SI0226-001 Acquired: 1/22/2015 19:24:54 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 5.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895_R	Ni2316_A	Pb2203_A	Sb2068_A	Se1960_A	Si2516_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W **592700.**	**75.40**	**22.90**	**105.0**	**23.94**	**3615.**
Stddev	5890.	1.08	1.54	3.5	13.24	60.
%RSD	.9937	1.430	6.743	3.315	55.29	1.669
#1	588500.	74.64	21.81	107.5	14.58	3657.
#2	596900.	76.16	23.99	102.6	33.30	3572.
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	25000.					
Low Limit	-1000.					

Elem	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A	V_2924_A	Zn2062_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**8.156**	**1025.**	**5.983**	**3.376**	**13.02**	**120.0**
Stddev	4.421	11.	.540	8.801	.33	1.0
%RSD	54.21	1.115	9.027	260.7	2.518	.8222
#1	11.28	1017.	6.365	9.599	13.25	119.3
#2	5.029	1033.	5.601	-2.847	12.79	120.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12584.	11097.	407720.
Stddev	1.	9.	3342.
%RSD	.01119	.07946	.81977
#1	12585.	11103.	410080.
#2	12583.	11091.	405360.

Sample Name: PBWIA14ICW2 Acquired: 1/22/2015 19:30:00 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.2994**	**10.48**	**.6261**	**-.2927**	**1.586**	**-.0215**	**.0179**
Stddev	.1182	17.50	.6994	.5068	.351	.1137	.0100
%RSD	39.49	166.9	111.7	173.1	22.13	529.8	55.98
#1	-.3830	-1.888	1.121	-.6510	1.834	.0589	.0250
#2	-.2158	22.86	.1315	.0656	1.338	-.1019	.0108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**41.23**	**-.0529**	**-.0749**	**-.0711**	**-.7571**	**4.996**	**-9.159**
Stddev	4.13	.0082	.0460	.1665	.1903	1.027	51.29
%RSD	10.01	15.48	61.48	234.2	25.14	20.55	560.0
#1	44.15	-.0471	-.0423	-.1888	-.8917	4.270	-45.42
#2	38.32	-.0586	-.1074	.0467	-.6225	5.722	27.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.276**	**6.011**	**1.528**	W **6.000**	**87.52**	**.1693**	**-.6280**
Stddev	.702	.618	.837	.804	.26	.0064	.7661
%RSD	55.03	10.28	54.76	13.39	.3003	3.807	122.0
#1	1.773	5.574	.9366	6.569	87.71	.1739	-1.170
#2	.7796	6.449	2.120	5.432	87.34	.1648	-.0864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit				5.000			
Low Limit				-5.000			

Sample Name: PBWIA14ICW2 Acquired: 1/22/2015 19:30:00 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.5567	-.8455	3.507	1.563	.0368	.3549	.5391
Stddev	.0257	1.117	8.594	.528	.1781	.0757	.4705
%RSD	4.610	132.1	245.1	33.80	483.8	21.34	87.28
#1	.5386	-1.635	-2.570	1.937	.1628	.4084	.2064
#2	.5749	-.0555	9.584	1.190	-.0891	.3013	.8718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.0117	1.361
Stddev	.2592	.063
%RSD	2207.	4.625
#1	-.1950	1.406
#2	.1715	1.317
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12657.	12033.	442620.
Stddev	18.	10.	529.
%RSD	.14144	.08171	.11944
#1	12645.	12026.	442250.
#2	12670.	12040.	443000.

Sample Name: LCSWIA14ICW2 Acquired: 1/22/2015 19:35:09 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**53.23**	**2248.**	**101.0**	**1.952**	**498.1**	**2194.**	**55.94**
Stddev	.41	27.	1.5	1.054	1.2	17.	.83
%RSD	.7613	1.204	1.500	53.99	.2487	.7677	1.489
#1	52.94	2228.	99.94	1.207	499.0	2182.	55.35
#2	53.52	2267.	102.1	2.697	497.3	2206.	56.53
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2595.**	**254.8**	**555.8**	**223.7**	**274.7**	**1113.**	**10360.**
Stddev	30.	.6	.4	1.7	2.2	27.	92.
%RSD	1.140	.2367	.0802	.7610	.8184	2.457	.8866
#1	2574.	254.4	556.1	222.5	273.1	1094.	10290.
#2	2615.	255.3	555.5	224.9	276.3	1132.	10420.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**518.8**	**5031.**	**550.5**	**112.8**	**7839.**	**552.8**	**101.8**
Stddev	4.8	5.	7.4	.6	80.	.4	.1
%RSD	.9198	.1075	1.344	.5562	1.024	.0737	.0804
#1	515.5	5034.	545.3	112.4	7782.	552.6	101.9
#2	522.2	5027.	555.7	113.3	7895.	553.1	101.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: LCSWIA14ICW2 Acquired: 1/22/2015 19:35:09 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**102.7**	**101.8**	**1040.**	**509.1**	**519.6**	**489.8**	**113.9**
Stddev	.2	.5	4.	.6	4.8	4.6	.3
%RSD	.1738	.4940	.3765	.1208	.9142	.9400	.2878
#1	102.5	102.2	1042.	509.6	516.2	486.5	113.7
#2	102.8	101.4	1037.	508.7	522.9	493.0	114.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**547.5**	**549.5**
Stddev	4.2	.5
%RSD	.7665	.0841
#1	544.5	549.2
#2	550.5	549.9
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12515.	11867.	433900.
Stddev	14.	24.	2966.
%RSD	.10826	.20094	.68350
#1	12506.	11884.	435990.
#2	12525.	11850.	431800.

Sample Name: SI0230-002 Acquired: 1/22/2015 19:40:11 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.0544	W 29070.	7.691	.9569	28.24	394.7	2.040
Stddev	.0652	428.	1.108	.7910	.33	5.0	.042
%RSD	119.8	1.472	14.40	82.66	1.152	1.261	2.052
#1	-.1005	28760.	8.474	1.516	28.47	391.2	2.011
#2	-.0083	29370.	6.908	.3976	28.01	398.3	2.070
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		25000.					
Low Limit		-300.0					

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	7525.	-.0922	14.19	29.77	127.2	10710.	2835.
Stddev	123.	.0133	.11	.18	1.6	145.	45.
%RSD	1.640	14.43	.7444	.6110	1.262	1.349	1.596
#1	7438.	-.0828	14.27	29.64	126.1	10610.	2803.
#2	7612.	-.1016	14.12	29.90	128.3	10820.	2867.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	14.91	4565.	181.2	8.641	W 27190.	21.84	26.14
Stddev	.13	6.	1.6	.042	295.	.02	1.20
%RSD	.8391	.1267	.8624	.4852	1.083	.1134	4.607
#1	14.83	4569.	180.0	8.671	26980.	21.85	25.28
#2	15.00	4561.	182.3	8.612	27390.	21.82	26.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					25000.		
Low Limit					-1000.		

Sample Name: SI0230-002 Acquired: 1/22/2015 19:40:11 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.5745	-1.211	23580.	3.324	201.8	90.43	.0774
Stddev	.3333	2.720	369.	.495	2.4	.74	.2671
%RSD	58.02	224.6	1.563	14.90	1.178	.8197	345.1
#1	.3388	.7121	23320.	3.675	200.1	89.90	-.1115
#2	.8101	-3.134	23840.	2.974	203.4	90.95	.2662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	27.93	56.43
Stddev	.35	.09
%RSD	1.243	.1669
#1	27.69	56.49
#2	28.18	56.36
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12895.	11982.	435000.
Stddev	17.	22.	1956.
%RSD	.13370	.18638	.44961
#1	12907.	11966.	436380.
#2	12883.	11998.	433620.

Sample Name: CCV Acquired: 1/22/2015 19:45:13 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**509.4**	**12550.**	**501.4**	**495.5**	**510.7**	**510.4**	**512.2**
Stddev	1.3	142.	3.6	14.0	.8	4.3	4.9
%RSD	.2539	1.133	.7196	2.827	.1488	.8473	.9611
#1	510.4	12450.	498.8	485.6	510.2	507.4	508.7
#2	508.5	12650.	503.9	505.5	511.3	513.5	515.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**12510.**	**503.4**	**515.6**	**519.0**	**517.5**	**12790.**	**12740.**
Stddev	158.	.9	.2	1.7	.7	178.	54.
%RSD	1.260	.1775	.0312	.3294	.1311	1.391	.4250
#1	12400.	502.8	515.5	520.2	518.0	12670.	12700.
#2	12620.	504.0	515.7	517.8	517.0	12920.	12770.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**507.2**	**12640.**	**505.3**	**515.9**	**12650.**	**509.8**	**504.9**
Stddev	5.1	1.	9.8	3.8	138.	.2	1.7
%RSD	1.004	.0103	1.940	.7396	1.091	.0485	.3412
#1	503.6	12640.	498.4	513.2	12550.	509.6	503.7
#2	510.8	12640.	512.2	518.6	12750.	509.9	506.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 1/22/2015 19:45:13 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	507.3	504.5	12530.	500.4	502.6	511.3	522.4
Stddev	.4	9.5	204.	1.7	6.0	.1	1.3
%RSD	.0876	1.875	1.624	.3339	1.193	.0131	.2557
#1	507.6	497.8	12390.	499.2	498.4	511.2	523.3
#2	506.9	511.2	12680.	501.6	506.9	511.3	521.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	511.5	509.2
Stddev	1.0	.0
%RSD	.1936	.0020
#1	512.2	509.2
#2	510.8	509.2
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12764.	11891.	430950.
Stddev	92.	2.	1100.
%RSD	.72092	.01765	.25520
#1	12829.	11892.	430170.
#2	12699.	11889.	431730.

Sample Name: CCB Acquired: 1/22/2015 19:50:09 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.0945	6.460	1.452	.0098	.5018	.2232	.1650
Stddev	.1270	7.310	1.255	.5107	.0843	.0451	.0892
%RSD	134.4	113.2	86.48	5217.	16.81	20.19	54.05
#1	-.1843	1.291	2.339	.3709	.5615	.2551	.1020
#2	-.0047	11.63	.5639	-.3513	.4422	.1913	.2281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	8.977	.0745	.2017	.0323	-.5289	7.086	9.360
Stddev	2.386	.0517	.1395	.0772	.2102	.249	26.93
%RSD	26.58	69.42	69.16	239.3	39.75	3.516	287.7
#1	10.66	.1111	.1031	.0869	-.3802	7.262	-9.682
#2	7.290	.0379	.3004	-.0223	-.6776	6.910	28.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1.168	8.093	.3661	3.390	35.16	.0541	-.3238
Stddev	.022	.372	.7998	.695	7.37	.0144	.0277
%RSD	1.895	4.597	218.5	20.50	20.97	26.67	8.542
#1	1.183	8.356	-.1995	3.882	29.94	.0643	-.3043
#2	1.152	7.830	.9316	2.899	40.37	.0439	-.3434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 1/22/2015 19:50:09 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.3441	1.258	17.85	.4963	.1363	1.269	1.368
Stddev	.6329	3.169	9.79	.2191	.1777	.024	.534
%RSD	183.9	251.9	54.83	44.15	130.4	1.898	39.08
#1	.1034	3.499	24.78	.3413	.0107	1.252	1.745
#2	-.7916	-.9826	10.93	.6512	.2620	1.286	.9897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.0013	.2008
Stddev	.2556	.0165
%RSD	19640.	8.192
#1	-.1820	.2124
#2	.1794	.1892
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12761.	12084.	447790.
Stddev	42.	17.	1392.
%RSD	.32988	.14055	.31092
#1	12791.	12072.	446810.
#2	12731.	12096.	448780.

Sample Name: SI0230-003 Acquired: 1/22/2015 19:55:17 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1.088	W 71470.	23.65	1.334	50.25	248.4	6.992
Stddev	.089	296.	.05	.056	.31	2.5	.090
%RSD	8.172	.4134	.2067	4.172	.6232	1.025	1.292
#1	1.025	71260.	23.62	1.373	50.03	246.6	6.929
#2	1.151	71680.	23.68	1.294	50.48	250.2	7.056
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		25000.					
Low Limit		-300.0					

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	24240.	-.3903	34.40	101.3	110.6	W 40550.	6224.
Stddev	245.	.2049	.25	.4	.1	926.	74.
%RSD	1.012	52.51	.7380	.4313	.0895	2.283	1.196
#1	24070.	-.2454	34.58	101.6	110.7	39900.	6171.
#2	24410.	-.5352	34.22	101.0	110.6	41200.	6276.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						25000.	
Low Limit						-100.0	

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	43.66	11290.	633.3	22.54	W 71870.	59.64	90.00
Stddev	1.01	10.	14.0	.10	344.	.25	.54
%RSD	2.323	.0896	2.214	.4232	.4788	.4232	.6007
#1	44.38	11300.	623.4	22.61	71630.	59.81	90.38
#2	42.95	11280.	643.2	22.47	72110.	59.46	89.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					25000.		
Low Limit					-1000.		

Sample Name: SI0230-003 Acquired: 1/22/2015 19:55:17 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-1.476	.2013	W 38960.	7.397	469.5	114.5	-1.335
Stddev	2.331	.9137	807.	.263	5.3	.0	.866
%RSD	158.0	454.0	2.072	3.553	1.119	.0019	64.82
#1	.1727	-.4448	38390.	7.211	465.8	114.5	-1.947
#2	-3.124	.8474	39530.	7.583	473.2	114.5	-.7233
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			25000.				
Low Limit			-200.0				

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	77.84	226.5
Stddev	.16	.6
%RSD	.2059	.2594
#1	77.72	226.1
#2	77.95	227.0
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12974.	12044.	435170.
Stddev	20.	23.	881.
%RSD	.15089	.19473	.20255
#1	12961.	12061.	434550.
#2	12988.	12027.	435790.

Sample Name: SI0230-004 Acquired: 1/22/2015 20:00:18 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.2309**	**10280.**	**2.829**	**.2049**	**16.30**	**51.74**	**.8176**
Stddev	.0402	95.	.471	.0547	.09	.72	.0058
%RSD	17.41	.9191	16.67	26.69	.5804	1.383	.7043
#1	-.2025	10220.	3.162	.2436	16.37	51.24	.8217
#2	-.2594	10350.	2.495	.1662	16.23	52.25	.8136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4969.**	**-.0691**	**5.353**	**15.41**	**17.77**	**7683.**	**1650.**
Stddev	46.	.0132	.035	.10	.64	57.	11.
%RSD	.9255	19.07	.6498	.6509	3.615	.7362	.6524
#1	4936.	-.0784	5.377	15.48	18.23	7643.	1643.
#2	5002.	-.0597	5.328	15.34	17.32	7723.	1658.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**8.213**	**2342.**	**110.4**	**3.841**	**15800.**	**14.35**	**14.48**
Stddev	.600	2.	2.3	.338	143.	.11	.66
%RSD	7.300	.0722	2.129	8.794	.9073	.7395	4.550
#1	8.637	2343.	108.7	4.080	15700.	14.42	14.95
#2	7.789	2341.	112.1	3.602	15900.	14.27	14.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SI0230-004 Acquired: 1/22/2015 20:00:18 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.0166	-1.351	19960.	.6906	73.89	55.97	-.7071
Stddev	1.594	.856	178.	.9258	.98	.29	.1900
%RSD	9585.	63.34	.8907	134.0	1.324	.5121	26.87
#1	1.144	-1.956	19830.	1.345	73.20	56.17	-.5728
#2	-1.111	-.7457	20080.	.0360	74.59	55.76	-.8415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	13.32	68.45
Stddev	.09	.16
%RSD	.6696	.2324
#1	13.26	68.34
#2	13.38	68.56
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12619.	12076.	438410.
Stddev	4.	12.	1721.
%RSD	.03340	.09826	.39260
#1	12616.	12067.	437200.
#2	12622.	12084.	439630.

Sample Name: SI0230-004L Acquired: 1/22/2015 20:05:21 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 5.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.5974**	**10330.**	**2.596**	**-1.913**	**14.06**	**48.52**	**1.114**
Stddev	.1467	32.	.200	2.384	.00	1.94	.130
%RSD	24.55	.3071	7.698	124.7	.0202	3.992	11.68
#1	-.7012	10350.	2.454	-.2268	14.06	47.15	1.022
#2	-.4937	10300.	2.737	-3.599	14.07	49.89	1.206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5130.**	**-.3475**	**4.781**	**13.99**	**14.97**	**7687.**	**1481.**
Stddev	78.	.1126	.151	.03	.35	185.	147.
%RSD	1.511	32.39	3.153	.2053	2.349	2.409	9.902
#1	5076.	-.4271	4.675	14.01	14.73	7557.	1584.
#2	5185.	-.2679	4.888	13.97	15.22	7818.	1377.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**15.32**	**2472.**	**112.3**	**2.678**	**16310.**	**12.29**	**12.41**
Stddev	5.43	6.	6.1	1.198	169.	.11	6.53
%RSD	35.43	.2255	5.403	44.75	1.034	.8577	52.57
#1	11.48	2468.	108.0	3.525	16190.	12.36	7.800
#2	19.16	2476.	116.6	1.830	16430.	12.21	17.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SI0230-004L Acquired: 1/22/2015 20:05:21 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 5.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.9907	-8.515	20090.	-.2750	74.30	53.54	6.090
Stddev	4.162	1.018	247.	3.738	1.57	.75	1.133
%RSD	420.1	11.95	1.229	1359.	2.111	1.405	18.60
#1	1.952	-9.234	19920.	2.368	73.19	54.07	6.891
#2	-3.933	-7.795	20270.	-2.918	75.41	53.01	5.289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	12.74	60.07
Stddev	.23	.19
%RSD	1.834	.3130
#1	12.91	59.94
#2	12.58	60.21
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12701.	12228.	448490.
Stddev	132.	18.	1731.
%RSD	1.0363	.14550	.38599
#1	12794.	12215.	449720.
#2	12607.	12240.	447270.

Sample Name: SI0230-004A Acquired: 1/22/2015 20:10:28 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	475.4	20300.	461.6	2.723	477.0	528.9	483.9
Stddev	4.3	248.	2.5	1.016	.9	6.0	6.0
%RSD	.9101	1.221	.5397	37.31	.1934	1.141	1.231
#1	472.3	20120.	459.9	2.005	476.4	524.6	479.7
#2	478.4	20480.	463.4	3.442	477.7	533.2	488.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	10440.	480.5	479.1	492.8	492.1	12600.	11230.
Stddev	124.	.7	.1	6.4	5.1	160.	99.
%RSD	1.191	.1379	.0128	1.304	1.028	1.272	.8845
#1	10350.	480.0	479.0	488.2	488.5	12490.	11160.
#2	10520.	480.9	479.1	497.3	495.6	12720.	11300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	495.0	7707.	594.8	473.7	21030.	495.7	497.9
Stddev	4.0	4.	8.7	4.6	248.	1.0	1.1
%RSD	.8032	.0487	1.460	.9722	1.179	.1979	.2127
#1	492.1	7704.	588.7	470.4	20860.	495.0	497.1
#2	497.8	7710.	600.9	476.9	21210.	496.4	498.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SI0230-004A Acquired: 1/22/2015 20:10:28 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**464.0**	**457.2**	**19380.**	**1.649**	**559.0**	**534.6**	**478.7**
Stddev	.8	3.7	282.	.573	6.5	6.4	.5
%RSD	.1748	.8029	1.453	34.76	1.161	1.190	.1123
#1	463.4	454.6	19180.	1.243	554.4	530.2	478.3
#2	464.5	459.8	19580.	2.054	563.6	539.1	479.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**502.4**	**525.0**
Stddev	5.9	1.4
%RSD	1.179	.2745
#1	498.2	523.9
#2	506.6	526.0
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12393.	11930.	428580.
Stddev	3.	9.	3097.
%RSD	.02206	.07289	.72260
#1	12395.	11936.	430770.
#2	12391.	11923.	426390.

Sample Name: SI0230-004S Acquired: 1/22/2015 20:15:26 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**51.63**	W **30490.**	**99.47**	**3.183**	**476.6**	W **2170.**	**55.20**
Stddev	.75	291.	1.12	.834	.1	26.	.92
%RSD	1.460	.9536	1.127	26.20	.0282	1.191	1.666
#1	51.10	30290.	98.68	2.594	476.7	2152.	54.55
#2	52.17	30700.	100.3	3.773	476.5	2189.	55.85
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit		25000.				1000.	
Low Limit		-300.0				-5.000	

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7658.**	**248.2**	**523.6**	**231.0**	**278.4**	**12150.**	**11710.**
Stddev	81.	.2	.7	3.5	4.6	269.	94.
%RSD	1.053	.0640	.1255	1.535	1.655	2.212	.8034
#1	7601.	248.3	524.1	228.5	275.1	11960.	11650.
#2	7715.	248.1	523.1	233.5	281.6	12340.	11780.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**525.7**	**8208.**	**660.3**	**105.6**	**23390.**	**544.3**	**120.8**
Stddev	7.1	8.	11.3	.4	200.	.0	.1
%RSD	1.346	.1016	1.717	.3465	.8567	.0046	.1191
#1	520.7	8214.	652.2	105.8	23240.	544.2	120.7
#2	530.7	8202.	668.3	105.3	23530.	544.3	120.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SI0230-004S Acquired: 1/22/2015 20:15:26 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**56.96**	**97.04**	W **38380.**	**307.8**	**582.2**	**462.5**	**102.0**
Stddev	1.97	2.86	699.	1.1	8.7	8.3	.3
%RSD	3.449	2.951	1.821	.3717	1.495	1.796	.2610
#1	55.57	95.02	37890.	308.7	576.0	456.6	101.8
#2	58.35	99.07	38880.	307.0	588.3	468.3	102.2
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			25000.				
Low Limit			-200.0				

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**553.4**	**567.0**
Stddev	8.0	.9
%RSD	1.443	.1549
#1	547.8	567.7
#2	559.0	566.4
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12457.	12022.	430650.
Stddev	57.	8.	5211.
%RSD	.45945	.06739	1.2101
#1	12417.	12017.	434340.
#2	12498.	12028.	426970.

Sample Name: SI0230-004P Acquired: 1/22/2015 20:20:26 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	52.61	W 27940.	101.4	3.441	477.9	W 2189.	55.11
Stddev	.13	305.	.3	.775	2.9	27.	1.34
%RSD	.2453	1.092	.2565	22.54	.6028	1.226	2.435
#1	52.52	27720.	101.2	2.892	479.9	2170.	54.16
#2	52.70	28150.	101.6	3.989	475.8	2208.	56.06
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit		25000.				1000.	
Low Limit		-300.0				-5.000	

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	7582.	253.7	529.5	231.3	279.9	11640.	11580.
Stddev	125.	1.3	2.9	1.1	2.4	286.	101.
%RSD	1.651	.4972	.5545	.4920	.8545	2.452	.8746
#1	7494.	254.6	531.5	230.5	278.2	11440.	11510.
#2	7671.	252.8	527.4	232.1	281.5	11850.	11660.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	531.4	8122.	668.0	105.0	23050.	552.5	120.3
Stddev	8.8	50.	15.4	.2	239.	2.5	.0
%RSD	1.662	.6102	2.301	.1870	1.035	.4480	.0079
#1	525.2	8157.	657.1	104.9	22880.	554.3	120.3
#2	537.7	8087.	678.9	105.2	23220.	550.8	120.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SI0230-004P Acquired: 1/22/2015 20:20:26 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**49.39**	**100.4**	W **26790.**	**321.9**	**585.6**	**441.0**	**104.0**
Stddev	1.23	.1	611.	1.2	9.8	3.6	.8
%RSD	2.492	.1139	2.282	.3609	1.670	.8177	.8044
#1	48.52	100.4	26360.	322.7	578.7	438.5	104.6
#2	50.26	100.5	27230.	321.1	592.5	443.6	103.4
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			25000.				
Low Limit			-200.0				

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**559.5**	**573.4**
Stddev	3.4	2.4
%RSD	.6136	.4152
#1	557.1	575.1
#2	561.9	571.7
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12442.	11990.	428450.
Stddev	53.	61.	2118.
%RSD	.42510	.51185	.49436
#1	12479.	11946.	429940.
#2	12405.	12033.	426950.

Sample Name: SI0210-002 Acquired: 1/22/2015 20:25:25 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**13.16**	**12690.**	**22.83**	**9.853**	F **65690.**	**472.8**
Stddev	1.33	142.	2.69	.376	66.	5.5
%RSD	10.11	1.121	11.80	3.819	.1002	1.153
#1	12.22	12590.	20.92	10.12	65730.	468.9
#2	14.10	12800.	24.73	9.587	65640.	476.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					20000.	
Low Limit					-50.00	

Elem	Be3130_R	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.2839**	**9343.**	**4.148**	**61.52**	W **1074.**	F **23680.**
Stddev	.1214	133.	.368	.24	3.	223.
%RSD	42.77	1.421	8.868	.3980	.2617	.9404
#1	.1981	9249.	4.408	61.35	1072.	23520.
#2	.3698	9436.	3.888	61.69	1076.	23840.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Fail
High Limit					1000.	20000.
Low Limit					-10.00	-25.00

Elem	Fe2599_R	K_7664_R	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W **204900.**	W **130700.**	**25.09**	**1870.**	W **2978.**	**452.4**
Stddev	3272.	1198.	1.65	11.	43.	2.6
%RSD	1.597	.9164	6.590	.5927	1.456	.5736
#1	202600.	129800.	26.26	1878.	2947.	450.6
#2	207200.	131500.	23.92	1862.	3008.	454.3
Check ?	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit	25000.	25000.			1000.	
Low Limit	-100.0	-1000.			-5.000	

Sample Name: SI0210-002 Acquired: 1/22/2015 20:25:25 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895_R	Ni2316_A	Pb2203_A	Sb2068_A	Se1960_A	Si2516_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24010.**	W **4943.**	W **2729.**	**28.29**	**10.58**	**14380.**
Stddev	288.	5.	.	.10	4.27	266.
%RSD	1.198	.1006	.0102	.3445	40.40	1.851
#1	23810.	4940.	2729.	28.22	7.556	14200.
#2	24220.	4947.	2729.	28.36	13.60	14570.
Check ?	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.	1000.			
Low Limit		-10.00	-5.000			

Elem	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A	V_2924_A	Zn2062_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**679.3**	**37.26**	**265.2**	**-3.794**	**85.30**	F **29190.**
Stddev	.7	.42	.4	.765	.00	13.
%RSD	.1058	1.129	.1660	20.16	.0028	.0433
#1	679.8	36.96	264.9	-4.334	85.30	29180.
#2	678.8	37.56	265.5	-3.253	85.30	29200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						20000.
Low Limit						-20.00

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12080.	11388.	407270.
Stddev	15.	20.	292.
%RSD	.12018	.17321	.07162
#1	12090.	11374.	407060.
#2	12070.	11402.	407470.

Sample Name: SI0212-004 Acquired: 1/22/2015 20:30:07 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 5.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.3945	62.98	.7161	-6.054	1599.	34.43
Stddev	.9644	1.98	6.180	2.747	21.	.05
%RSD	244.4	3.150	863.0	45.38	1.314	.1524
#1	.2874	64.38	-3.654	-7.997	1614.	34.39
#2	-1.076	61.57	5.086	-4.111	1584.	34.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Be3130_R	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.5583	W 353700.	-.6830	1.910	1.198	31.45
Stddev	.1597	3383.	.2445	.948	.026	5.95
%RSD	28.61	.9565	35.80	49.60	2.183	18.92
#1	-.4454	351300.	-.5101	1.240	1.217	35.65
#2	-.6713	356100.	-.8559	2.580	1.180	27.24
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		25000.				
Low Limit		-100.0				

Elem	Fe2599_R	K_7664_R	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	363.9	114300.	157.0	W 496100.	59.94	10.43
Stddev	21.3	858.	7.9	24.	1.49	3.50
%RSD	5.841	.7507	5.036	.0048	2.481	33.53
#1	379.0	113700.	151.4	496100.	60.99	12.90
#2	348.9	114900.	162.6	496100.	58.89	7.956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit				25000.		
Low Limit				-100.0		

Sample Name: SI0212-004 Acquired: 1/22/2015 20:30:07 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 5.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895_R	Ni2316_A	Pb2203_A	Sb2068_A	Se1960_A	Si2516_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	F **3033000.**	**2.398**	**-.2913**	**12.10**	**-16.62**	**5565.**
Stddev	22760.	1.012	.5269	.90	12.30	120.
%RSD	.7506	42.18	180.9	7.426	74.02	2.150
#1	3049000.	1.683	-.6639	11.46	-7.919	5481.
#2	3017000.	3.114	.0812	12.73	-25.31	5650.
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	200000.					
Low Limit	-1000.					

Elem	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A	V_2924_A	Zn2062_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.977**	**4499.**	**.7326**	**.9665**	**-2.560**	**43.06**
Stddev	2.564	40.	.1856	4.336	.362	5.31
%RSD	129.7	.8940	25.34	448.6	14.16	12.34
#1	.1642	4471.	.8638	4.033	-2.816	46.82
#2	3.790	4528.	.6013	-2.100	-2.304	39.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11996.	10651.	375720.
Stddev	138.	4.	351.
%RSD	1.1533	.03578	.09344
#1	12094.	10649.	375480.
#2	11898.	10654.	375970.

Sample Name: PBWIA16ICW1 Acquired: 1/22/2015 20:35:18 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.3231	5.958	-1.614	-.5381	9.484	.7653	.0513
Stddev	.2133	.719	.566	.4379	.931	.2585	.0403
%RSD	66.02	12.06	35.09	81.38	9.823	33.77	78.50
#1	-.4740	5.450	-1.213	-.2285	10.14	.9481	.0798
#2	-.1723	6.466	-2.014	-.8478	8.825	.5826	.0228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	46.12	-.1204	-.0493	.0368	2.351	13.88	30.98
Stddev	7.63	.0012	.1028	.2418	.472	.53	19.80
%RSD	16.54	1.031	208.7	657.5	20.08	3.850	63.91
#1	51.51	-.1213	-.1220	-.1342	2.685	13.51	16.98
#2	40.72	-.1195	.0234	.2078	2.017	14.26	44.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	4.349	12.95	W 3.278	.3774	W 508.9	-.1675	-.5086
Stddev	.456	3.83	.831	.3156	79.9	.4723	.1544
%RSD	10.47	29.56	25.36	83.62	15.71	282.0	30.36
#1	4.027	15.66	2.690	.6006	565.4	-.5015	-.6177
#2	4.671	10.25	3.865	.1543	452.4	.1665	-.3994
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit			2.500		500.0		
Low Limit			-2.500		-500.0		

Sample Name: PBWIA16ICW1 Acquired: 1/22/2015 20:35:18 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.6566	-.5645	68.73	.8807	.3389	.1965	-.8018
Stddev	.9981	4.012	2.66	.3215	.4174	.1971	.0171
%RSD	152.0	710.7	3.874	36.50	123.1	100.3	2.134
#1	1.362	-3.402	70.61	1.108	.6341	.0571	-.7897
#2	-.0492	2.273	66.85	.6534	.0438	.3358	-.8139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.0157	.9099
Stddev	.2075	.1015
%RSD	1323.	11.16
#1	-.1311	.9817
#2	.1624	.8381
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12355.	12258.	439250.
Stddev	23.	3.	641.
%RSD	.18526	.02249	.14592
#1	12371.	12256.	439700.
#2	12338.	12260.	438790.

Sample Name: LCSWIA16ICW1 Acquired: 1/22/2015 20:40:25 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**52.67**	**2198.**	**97.10**	**2.315**	**464.6**	**2148.**	**53.71**
Stddev	.69	35.	1.79	.539	.3	22.	.86
%RSD	1.311	1.578	1.842	23.28	.0651	1.027	1.602
#1	52.18	2173.	98.36	1.934	464.4	2132.	53.10
#2	53.16	2222.	95.83	2.697	464.9	2163.	54.32
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2674.**	**259.5**	**522.7**	**211.2**	**262.1**	**1046.**	**9929.**
Stddev	30.	.4	.5	3.1	3.8	17.	105.
%RSD	1.133	.1480	.1014	1.485	1.447	1.580	1.056
#1	2653.	259.7	522.3	209.0	259.4	1034.	9855.
#2	2695.	259.2	523.0	213.5	264.7	1058.	10000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**524.8**	**5111.**	**559.3**	**100.8**	**7835.**	**543.8**	**105.8**
Stddev	1.6	17.	9.2	.2	91.	.1	.8
%RSD	.3086	.3330	1.645	.2054	1.161	.0185	.7524
#1	523.6	5123.	552.8	100.6	7771.	543.9	105.2
#2	525.9	5099.	565.8	100.9	7899.	543.8	106.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: LCSWIA16ICW1 Acquired: 1/22/2015 20:40:25 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**98.15**	**95.73**	1111.	**511.4**	**518.4**	**487.9**	**105.9**
Stddev	.03	3.16	32.	.6	4.7	7.1	1.5
%RSD	.0309	3.301	2.907	.1211	.9082	1.446	1.456
#1	98.13	93.50	1088.	511.0	515.1	482.9	104.8
#2	98.17	97.97	1134.	511.8	521.7	492.8	107.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**546.9**	**515.4**
Stddev	7.0	.0
%RSD	1.272	.0062
#1	542.0	515.4
#2	551.8	515.4
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12225.	12031.	428660.
Stddev	119.	34.	4864.
%RSD	.97348	.28530	1.1347
#1	12309.	12007.	432100.
#2	12141.	12056.	425220.

Sample Name: CCV Acquired: 1/22/2015 20:45:26 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**508.9**	**12550.**	**485.1**	**494.5**	**484.7**	**506.7**	**496.3**
Stddev	4.7	115.	3.0	13.3	1.2	6.5	7.4
%RSD	.9187	.9148	.6157	2.686	.2504	1.283	1.488
#1	505.6	12470.	483.0	485.1	483.8	502.1	491.0
#2	512.2	12630.	487.2	503.8	485.5	511.3	501.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**12930.**	**515.0**	**490.7**	**486.8**	**488.8**	**12170.**	**12270.**
Stddev	209.	.7	.2	7.0	5.0	254.	104.
%RSD	1.619	.1289	.0322	1.428	1.018	2.085	.8474
#1	12780.	515.4	490.6	481.9	485.3	11990.	12190.
#2	13080.	514.5	490.8	491.7	492.3	12350.	12340.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**515.9**	**12800.**	**525.2**	W **472.8**	**12770.**	**508.1**	**520.2**
Stddev	9.6	9.	11.5	3.6	124.	.7	.8
%RSD	1.862	.0675	2.184	.7522	.9680	.1449	.1446
#1	509.2	12810.	517.1	470.3	12680.	508.6	519.7
#2	522.7	12800.	533.3	475.3	12850.	507.6	520.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value				500.0			
Range				-5.400%			

Sample Name: CCV Acquired: 1/22/2015 20:45:26 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**488.8**	W **464.5**	**12920.**	**507.1**	**507.9**	**505.5**	**488.5**
Stddev	.8	4.6	244.	.4	7.3	7.4	.6
%RSD	.1547	.9993	1.889	.0727	1.440	1.462	.1194
#1	489.4	461.2	12750.	506.8	502.7	500.3	488.9
#2	488.3	467.7	13100.	507.3	513.1	510.7	488.1
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		500.0					
Range		-5.400%					

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**506.3**	**486.1**
Stddev	6.3	.3
%RSD	1.241	.0519
#1	501.9	485.9
#2	510.8	486.3
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12248.	12112.	432180.
Stddev	1.	4.	4948.
%RSD	.00821	.03072	1.1448
#1	12248.	12110.	435680.
#2	12247.	12115.	428680.

Sample Name: CCB Acquired: 1/22/2015 20:50:23 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.0962**	**6.379**	**1.899**	**-.4388**	**2.820**	**.3151**	**.1328**
Stddev	.2106	7.343	2.259	.0631	.155	.1723	.1102
%RSD	219.0	115.1	118.9	14.39	5.482	54.68	83.01
#1	.2451	1.187	3.496	-.4835	2.710	.4370	.2108
#2	-.0528	11.57	.3019	-.3942	2.929	.1933	.0549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**13.16**	**.1485**	**.1451**	**-.1790**	**1.811**	**3.416**	**-38.72**
Stddev	2.79	.0167	.1692	.1187	.288	2.757	3.21
%RSD	21.16	11.27	116.6	66.29	15.88	80.71	8.284
#1	15.13	.1603	.2647	-.0951	1.608	5.366	-40.99
#2	11.19	.1367	.0255	-.2630	2.015	1.466	-36.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4.288**	**6.849**	**.9229**	**2.474**	**39.77**	**.3160**	**.1112**
Stddev	1.079	1.919	.8672	.668	6.08	.0039	.9885
%RSD	25.17	28.02	93.96	26.99	15.28	1.220	889.3
#1	3.525	5.492	.3098	2.946	44.06	.3133	-.5878
#2	5.051	8.206	1.536	2.002	35.47	.3187	.8101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 1/22/2015 20:50:23 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.1881	.1948	42.92	.4836	.2319	.9401	2.189
Stddev	.1549	.6495	9.71	.0436	.0215	.0988	.396
%RSD	82.32	333.5	22.62	9.018	9.290	10.51	18.09
#1	-.0786	-.2645	36.05	.4528	.2166	1.010	2.469
#2	-.2977	.6540	49.78	.5145	.2471	.8702	1.909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.1839	.1478
Stddev	.3306	.0115
%RSD	179.8	7.810
#1	-.0499	.1396
#2	.4176	.1559
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12328.	12331.	439370.
Stddev	103.	13.	1239.
%RSD	.83746	.10801	.28205
#1	12401.	12340.	438490.
#2	12255.	12321.	440250.

Sample Name: SI0386-001 Acquired: 1/22/2015 20:55:30 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.5545	9546.	-1.853	-3.402	W 12200.	502.4	-.0892
Stddev	.1728	82.	1.489	.170	13.	3.2	.1260
%RSD	31.17	.8566	80.35	5.006	.1100	.6287	141.3
#1	-.6767	9488.	-.8001	-3.281	12190.	500.2	-.0001
#2	-.4323	9604.	-2.906	-3.522	12210.	504.6	-.1783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					1000.		
Low Limit					-50.00		

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	F 733600.	-.3484	5.036	2.552	24.90	6517.	W 69760.
Stddev	38740.	.0784	.016	.244	.57	129.	171.
%RSD	5.281	22.50	.3231	9.558	2.303	1.983	.2446
#1	706200.	-.2929	5.047	2.380	24.49	6426.	69640.
#2	761000.	-.4038	5.024	2.725	25.30	6608.	69880.
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit	500000.						25000.
Low Limit	-100.0						-1000.

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	237.7	354.8	50.48	W 4025.	F 725300.	38.19	39.09
Stddev	.5	2.9	.23	79.	2162.	.01	.27
%RSD	.1991	.8303	.4639	1.969	.2981	.0337	.6967
#1	237.4	356.8	50.32	3969.	726900.	38.19	38.89
#2	238.1	352.7	50.65	4081.	723800.	38.20	39.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Fail	Chk Pass	Chk Pass
High Limit				1000.	200000.		
Low Limit				-10.00	-1000.		

Sample Name: SI0386-001 Acquired: 1/22/2015 20:55:30 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**27.70**	**13.55**	**2855.**	**5.520**	W **2950.**	**3.475**	**-.1681**
Stddev	.08	3.05	4.	.328	21.	.093	2.145
%RSD	.2932	22.49	.1401	5.933	.6975	2.684	1276.
#1	27.65	15.71	2858.	5.289	2935.	3.409	1.349
#2	27.76	11.40	2852.	5.752	2964.	3.541	-1.685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					1000.		
Low Limit					-10.00		

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**7.425**	**64.93**
Stddev	.946	.05
%RSD	12.74	.0708
#1	8.094	64.96
#2	6.756	64.89
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11692.	10085.	358450.
Stddev	232.	13.	1432.
%RSD	1.9849	.13185	.39950
#1	11856.	10095.	359460.
#2	11528.	10076.	357440.

Sample Name: SI0226-001 Acquired: 1/22/2015 21:00:24 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.5114	3960.	-1.573	-2.558	W 13830.	213.3	-.0581
Stddev	.0992	80.	1.967	.288	32.	5.2	.0952
%RSD	19.40	2.009	125.1	11.24	.2281	2.457	163.9
#1	-.4412	3904.	-2.964	-2.762	13810.	209.6	.0092
#2	-.5815	4016.	-.1817	-2.355	13860.	217.0	-.1255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					1000.		
Low Limit					-50.00		

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	F 667000.	-.3807	7.695	6.048	56.26	13940.	W 60480.
Stddev	185.	.0261	.184	.308	.04	511.	1563.
%RSD	.0277	6.850	2.389	5.093	.0750	3.664	2.584
#1	666900.	-.3623	7.825	5.831	56.29	13570.	59370.
#2	667100.	-.3991	7.565	6.266	56.23	14300.	61580.
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit	500000.						25000.
Low Limit	-100.0						-1000.

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	137.1	1565.	106.7	W 3034.	F 447800.	72.49	24.46
Stddev	1.4	1.	2.6	57.	15650.	.18	.16
%RSD	.9871	.0853	2.403	1.878	3.495	.2417	.6672
#1	136.1	1564.	104.9	2994.	436700.	72.36	24.34
#2	138.1	1566.	108.5	3075.	458900.	72.61	24.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Fail	Chk Pass	Chk Pass
High Limit				1000.	200000.		
Low Limit				-10.00	-1000.		

Sample Name: SI0226-001 Acquired: 1/22/2015 21:00:24 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	114.6	8.047	3833.	4.242	W 1037.	7.836	-1.975
Stddev	2.2	.407	57.	.269	26.	.329	.634
%RSD	1.908	5.061	1.495	6.338	2.546	4.202	32.09
#1	113.1	7.759	3792.	4.432	1018.	8.069	-2.423
#2	116.2	8.335	3873.	4.052	1056.	7.603	-1.527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					1000.		
Low Limit					-10.00		

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	10.27	114.9
Stddev	.16	.3
%RSD	1.514	.2480
#1	10.38	114.7
#2	10.16	115.1
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11844.	10352.	366260.
Stddev	88.	31.	263.
%RSD	.74401	.29682	.07193
#1	11907.	10374.	366070.
#2	11782.	10331.	366440.

Sample Name: PBT1223D Acquired: 1/22/2015 21:05:14 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.4420	12.46	-.4997	-.2716	8.667	W 3.065	.0292
Stddev	.2253	5.73	1.005	.2791	1.042	.021	.0607
%RSD	50.96	45.97	201.2	102.8	12.02	.6677	207.9
#1	-.6013	16.51	-1.211	-.0743	9.403	3.079	.0722
#2	-.2827	8.409	.2113	-.4690	7.930	3.050	-.0137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						2.500	
Low Limit						-2.500	

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	F 173.2	-.0992	-.1212	-.1307	3.204	25.76	115.9
Stddev	16.2	.0126	.2116	.1648	.210	1.88	18.2
%RSD	9.328	12.68	174.6	126.1	6.559	7.279	15.66
#1	184.6	-.1081	.0285	-.2472	3.353	27.09	128.8
#2	161.8	-.0903	-.2709	-.0142	3.055	24.44	103.1
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	100.0						
Low Limit	-100.0						

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	5.844	9.549	W 2.828	F 51.39	479.4	-.0026	-.5074
Stddev	2.388	.239	.571	10.70	24.0	.2021	.7551
%RSD	40.87	2.507	20.20	20.82	5.005	7721.	148.8
#1	4.155	9.718	2.424	58.96	496.3	-.1455	.0266
#2	7.533	9.380	3.232	43.83	462.4	.1403	-1.041
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			2.500	10.00			
Low Limit			-2.500	-10.00			

Sample Name: PBT1223D Acquired: 1/22/2015 21:05:14 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.2153	-.9622	44.42	.2935	.6581	.3962	-.2668
Stddev	1.401	.3493	1.04	1.149	.1332	.2067	.0151
%RSD	650.8	36.30	2.346	391.6	20.24	52.17	5.678
#1	1.206	-.7152	43.68	1.106	.7523	.5424	-.2560
#2	-.7756	-1.209	45.15	-.5191	.5639	.2501	-.2775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.3999	1.580
Stddev	.0282	.209
%RSD	7.039	13.25
#1	-.3800	1.432
#2	-.4198	1.728
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12227.	12342.	441470.
Stddev	44.	22.	2361.
%RSD	.36196	.17594	.53481
#1	12259.	12327.	443140.
#2	12196.	12357.	439800.

Sample Name: PBT1225A Acquired: 1/22/2015 21:10:21 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.3018**	**10.83**	**.1439**	**-.1990**	**8.628**	F **10.52**	**.0830**
Stddev	.1059	5.29	.5139	.8857	.378	.44	.0706
%RSD	35.08	48.85	357.3	445.0	4.382	4.142	85.07
#1	-.3766	7.091	-.2195	-.8253	8.896	10.21	.0331
#2	-.2269	14.57	.5072	.4273	8.361	10.82	.1329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						5.000	
Low Limit						-5.000	

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**35.83**	**-.0844**	**-.1160**	**.2247**	**3.048**	**2.897**	**-13.47**
Stddev	3.05	.0219	.1280	.2354	.382	8.418	3.52
%RSD	8.511	25.96	110.3	104.8	12.53	290.5	26.13
#1	37.99	-.0998	-.0255	.0582	3.317	8.849	-15.95
#2	33.68	-.0689	-.2066	.3912	2.778	-3.055	-10.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.437**	**9.052**	**2.148**	F **16.85**	W **674.8**	**-.0170**	**.5274**
Stddev	.816	1.344	1.214	1.69	8.1	.2783	.3856
%RSD	33.46	14.85	56.54	10.05	1.199	1640.	73.12
#1	1.861	8.101	3.007	18.04	669.1	.1798	.8000
#2	3.014	10.00	1.289	15.65	680.5	-.2137	.2547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Warn	Chk Pass	Chk Pass
High Limit				10.00	500.0		
Low Limit				-10.00	-500.0		

Sample Name: PBT1225A Acquired: 1/22/2015 21:10:21 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.2839	.3308	77.81	-.2153	.4151	.4334	-.0047
Stddev	.6001	.3611	2.73	.2412	.3337	.0910	.5281
%RSD	211.4	109.2	3.512	112.0	80.37	21.00	11220.
#1	.7082	.0754	75.88	-.3858	.6511	.4978	-.3781
#2	-.1404	.5861	79.74	-.0448	.1792	.3691	.3687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	-.0129	8.186
Stddev	.0827	.144
%RSD	640.8	1.756
#1	-.0714	8.085
#2	.0456	8.288
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	12388.	12438.	444530.
Stddev	79.	19.	1239.
%RSD	.63636	.15185	.27874
#1	12443.	12425.	443650.
#2	12332.	12452.	445410.

Sample Name: SI0227-001T Acquired: 1/22/2015 21:15:30 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.1324	167.7	1.526	-.0228	64.81	57.83	.0569
Stddev	.0017	8.8	.031	.2495	.35	.78	.0259
%RSD	1.260	5.242	2.003	1096.	.5344	1.353	45.52
#1	-.1312	174.0	1.547	.1537	65.05	57.28	.0752
#2	-.1335	161.5	1.504	-.1992	64.56	58.38	.0386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W 44720.	2.038	10.13	2.826	11.83	1982.	2468.
Stddev	171.	.009	.07	.069	.24	29.	46.
%RSD	.3829	.4487	.7048	2.438	2.061	1.469	1.852
#1	44600.	2.031	10.08	2.778	11.66	1961.	2435.
#2	44840.	2.044	10.18	2.875	12.00	2002.	2500.
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	25000.						
Low Limit	-100.0						

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	10.33	1886.	325.1	11.34	F 314300.	10.43	155.2
Stddev	.80	5.	.5	.59	906.	.32	.7
%RSD	7.788	.2567	.1634	5.242	.2882	3.090	.4814
#1	10.90	1882.	325.5	11.76	313700.	10.20	154.7
#2	9.763	1889.	324.8	10.92	315000.	10.66	155.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					200000.		
Low Limit					-1000.		

Sample Name: SI0227-001T Acquired: 1/22/2015 21:15:30 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1.160	-.0084	547.4	.5873	139.5	.5426	-.3922
Stddev	.143	4.903	6.2	.2282	1.0	.0882	.2970
%RSD	12.32	58390.	1.139	38.85	.7404	16.25	75.72
#1	1.059	-3.475	551.8	.7487	138.8	.4802	-.6022
#2	1.261	3.459	543.0	.4260	140.3	.6049	-.1822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.5498	834.5
Stddev	.1458	.1
%RSD	26.52	.0116
#1	.6528	834.4
#2	.4467	834.6
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11803.	11347.	393460.
Stddev	13.	1.	4900.
%RSD	.10695	.01150	1.2454
#1	11794.	11346.	389990.
#2	11812.	11348.	396920.

Sample Name: SI0227-002T Acquired: 1/22/2015 21:20:17 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.2784**	**168.3**	**4.145**	**.1367**	**61.34**	**59.21**	**.1593**
Stddev	.1236	9.1	.568	.2449	.15	.78	.1058
%RSD	44.40	5.379	13.70	179.2	.2379	1.321	66.39
#1	-.1910	161.9	4.547	-.0365	61.44	58.66	.2341
#2	-.3658	174.7	3.744	.3099	61.24	59.77	.0845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W **39280.**	**1.532**	**10.86**	**3.678**	**9.971**	**1696.**	**2330.**
Stddev	380.	.025	.21	.048	.461	20.	.
%RSD	.9669	1.599	1.970	1.293	4.618	1.167	.0174
#1	39010.	1.550	11.02	3.644	9.645	1682.	2330.
#2	39550.	1.515	10.71	3.711	10.30	1710.	2330.
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	25000.						
Low Limit	-100.0						

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**10.61**	**1733.**	**312.3**	**6.856**	F **305400.**	**12.07**	**133.5**
Stddev	.30	2.	4.2	.257	5854.	.05	1.5
%RSD	2.814	.1142	1.355	3.745	1.917	.4211	1.127
#1	10.82	1732.	309.3	7.038	301200.	12.10	132.4
#2	10.40	1734.	315.3	6.675	309500.	12.03	134.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					200000.		
Low Limit					-1000.		

Sample Name: SI0227-002T Acquired: 1/22/2015 21:20:17 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.1777	.6200	546.9	.0821	119.5	.3518	-.2952
Stddev	.5555	2.266	15.5	.1317	1.5	.1132	.6054
%RSD	312.7	365.4	2.827	160.3	1.293	32.17	205.1
#1	-.2151	-.9820	536.0	.1752	118.4	.2717	.1329
#2	.5705	2.222	557.8	-.0110	120.6	.4318	-.7233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.6170	807.0
Stddev	.2230	1.2
%RSD	36.14	.1465
#1	.7747	807.8
#2	.4593	806.1
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11725.	11294.	391340.
Stddev	66.	3.	2488.
%RSD	.56586	.02220	.63584
#1	11772.	11296.	393100.
#2	11679.	11292.	389580.

Sample Name: SI0227-003T Acquired: 1/22/2015 21:25:05 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.2853	161.6	1.941	-.0533	61.46	60.06	.0822
Stddev	.4087	13.5	1.948	.4907	.11	.02	.0601
%RSD	143.3	8.348	100.4	919.8	.1713	.0266	73.13
#1	-.5743	152.0	.5632	.2936	61.54	60.05	.1247
#2	.0037	171.1	3.319	-.4003	61.39	60.07	.0397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W 41640.	1.366	10.94	2.419	8.700	3001.	2267.
Stddev	270.	.068	.14	.029	.217	54.	35.
%RSD	.6478	4.953	1.247	1.180	2.496	1.809	1.541
#1	41450.	1.318	10.84	2.439	8.547	2962.	2242.
#2	41830.	1.414	11.04	2.399	8.854	3039.	2291.
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	25000.						
Low Limit	-100.0						

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	8.282	1650.	323.8	5.114	F 311900.	10.86	128.9
Stddev	1.184	2.	4.2	.226	3329.	.09	.1
%RSD	14.30	.1342	1.310	4.412	1.067	.8181	.0848
#1	9.120	1649.	320.8	5.274	309600.	10.92	129.0
#2	7.445	1652.	326.8	4.955	314300.	10.80	128.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					200000.		
Low Limit					-1000.		

Sample Name: SI0227-003T Acquired: 1/22/2015 21:25:05 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.8691	-.1990	543.9	.8647	125.5	.2256	-1.479
Stddev	.0807	.1794	22.7	.5509	1.1	.1666	.500
%RSD	9.286	90.12	4.170	63.71	.8873	73.82	33.79
#1	.9262	-.0722	559.9	.4752	124.8	.1078	-1.126
#2	.8120	-.3259	527.8	1.254	126.3	.3434	-1.832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.5601	845.4
Stddev	.1657	.3
%RSD	29.59	.0354
#1	.4429	845.2
#2	.6773	845.6
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11766.	11400.	393670.
Stddev	49.	5.	1483.
%RSD	.41814	.04535	.37673
#1	11801.	11404.	394710.
#2	11731.	11396.	392620.

Sample Name: SI0227-004T Acquired: 1/22/2015 21:29:53 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.2999	160.2	1.065	.7047	54.45	57.92	.0379
Stddev	.3419	13.8	.485	.5658	.20	.61	.0631
%RSD	114.0	8.604	45.58	80.30	.3585	1.058	166.6
#1	-.5417	170.0	1.409	.3046	54.59	57.49	.0825
#2	-.0582	150.5	.7219	1.105	54.31	58.35	-.0067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W 41410.	1.338	11.51	4.490	9.155	2139.	2114.
Stddev	564.	.043	.05	.508	.359	25.	2.
%RSD	1.363	3.215	.4343	11.32	3.921	1.167	.1172
#1	41010.	1.369	11.55	4.131	9.409	2122.	2115.
#2	41810.	1.308	11.48	4.850	8.901	2157.	2112.
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	25000.						
Low Limit	-100.0						

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	10.19	1586.	331.8	3.834	F 296700.	13.18	130.9
Stddev	.26	2.	2.0	.119	2212.	.09	.7
%RSD	2.556	.1362	.5986	3.098	.7455	.6882	.5602
#1	10.01	1587.	330.4	3.918	295100.	13.12	131.4
#2	10.38	1584.	333.2	3.750	298300.	13.25	130.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					200000.		
Low Limit					-1000.		

Sample Name: SI0227-004T Acquired: 1/22/2015 21:29:53 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.6690**	**.0490**	**589.7**	**.8976**	**119.6**	**.3933**	**-.4761**
Stddev	.7436	2.826	29.0	1.006	1.8	.2947	.8128
%RSD	111.1	5768.	4.910	112.1	1.491	74.92	170.7
#1	.1432	-1.949	569.3	1.609	118.4	.6017	-1.051
#2	1.195	2.047	610.2	.1863	120.9	.1850	.0986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**.5450**	**755.6**
Stddev	.2853	.1
%RSD	52.35	.0175
#1	.3432	755.7
#2	.7467	755.5
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11653.	11344.	389560.
Stddev	47.	14.	3208.
%RSD	.40573	.11962	.82336
#1	11686.	11353.	391830.
#2	11619.	11334.	387300.

Sample Name: SI0230-001T Acquired: 1/22/2015 21:34:41 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.2831	348.0	-.4851	-.6854	62.60	135.6	.0764
Stddev	.2238	25.1	1.605	.2037	.34	1.2	.0341
%RSD	79.05	7.202	330.8	29.72	.5470	.8980	44.71
#1	-.4414	330.3	.6495	-.5413	62.84	134.8	.1005
#2	-.1249	365.7	-1.620	-.8294	62.36	136.5	.0522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	2069.	-.0192	1.636	1.415	3.562	522.8	607.7
Stddev	24.	.0141	.094	.164	.067	.8	10.4
%RSD	1.164	73.35	5.744	11.60	1.882	.1528	1.711
#1	2052.	-.0092	1.703	1.299	3.609	523.3	600.3
#2	2086.	-.0291	1.570	1.531	3.515	522.2	615.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	5.927	456.7	93.59	2.346	F 278800.	2.733	.8074
Stddev	.943	3.1	1.37	.256	1549.	.089	.6203
%RSD	15.91	.6735	1.465	10.89	.5555	3.274	76.84
#1	6.594	454.5	92.63	2.527	277700.	2.797	.3687
#2	5.261	458.8	94.56	2.166	279900.	2.670	1.246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					200000.		
Low Limit					-1000.		

Sample Name: SI0230-001T Acquired: 1/22/2015 21:34:41 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.3034**	-1.174	**747.1**	**.5842**	**36.38**	**1.952**	**-.2681**
Stddev	.1834	.239	34.5	.1319	.60	.176	.8251
%RSD	60.45	20.36	4.622	22.57	1.659	9.037	307.8
#1	-.4331	-1.343	722.7	.4910	35.96	2.077	.3153
#2	-.1737	-1.005	771.6	.6775	36.81	1.827	-.8515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**.1670**	**145.9**
Stddev	.0677	.1
%RSD	40.56	.0982
#1	.1191	145.8
#2	.2149	146.0
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11614.	11436.	394150.
Stddev	35.	4.	2169.
%RSD	.29736	.03066	.55022
#1	11590.	11439.	392610.
#2	11638.	11434.	395680.

Sample Name: SI0279-001 Acquired: 1/22/2015 21:39:34 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.5224	39.76	-.7490	-.0926	12.70	10.30	-.0561
Stddev	.0373	7.88	.1570	.5896	.13	.45	.1814
%RSD	7.147	19.82	20.96	636.5	1.058	4.364	323.1
#1	-.4960	34.18	-.8600	-.5095	12.61	9.983	.0721
#2	-.5488	45.33	-.6380	.3243	12.80	10.62	-.1844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	13110.	.0453	.5509	.1670	4.024	8.295	2085.
Stddev	272.	.0177	.0218	.3063	.165	.726	30.
%RSD	2.076	39.00	3.952	183.4	4.090	8.751	1.417
#1	12920.	.0328	.5663	.3836	3.908	7.782	2065.
#2	13310.	.0578	.5355	-.0496	4.141	8.809	2106.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	3.018	2739.	49.82	1.270	W 91140.	3.806	1.128
Stddev	1.098	3.	1.04	.015	985.	.179	.943
%RSD	36.38	.1239	2.086	1.152	1.081	4.712	83.60
#1	3.795	2737.	49.08	1.260	90440.	3.933	1.795
#2	2.242	2741.	50.55	1.281	91840.	3.680	.4612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit					25000.		
Low Limit					-1000.		

Sample Name: SI0279-001 Acquired: 1/22/2015 21:39:34 Type: Unk
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.6223	-1.424	4009.	.3918	100.2	-.3046	.7159
Stddev	.8303	2.728	105.	1.051	2.0	.0664	2.106
%RSD	133.4	191.6	2.620	268.2	1.991	21.80	294.2
#1	.0353	.5049	3935.	-.3513	98.77	-.2576	-.7732
#2	1.209	-3.354	4083.	1.135	101.6	-.3515	2.205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.0014	6.304
Stddev	.0399	.086
%RSD	2769.	1.356
#1	.0296	6.243
#2	-.0267	6.364
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11699.	11792.	408450.
Stddev	118.	1.	647.
%RSD	1.0044	.00435	.15849
#1	11782.	11792.	408910.
#2	11616.	11793.	407990.

Sample Name: CCV Acquired: 1/22/2015 21:44:40 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	510.5	12590.	477.9	488.1	W 472.4	507.1	494.4
Stddev	4.2	96.	4.6	15.4	.1	6.5	8.1
%RSD	.8185	.7612	.9620	3.147	.0268	1.285	1.639
#1	507.6	12520.	474.6	477.3	472.3	502.5	488.6
#2	513.5	12660.	481.1	499.0	472.5	511.7	500.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value					500.0		
Range					-5.400%		

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W 13200.	522.4	482.0	480.3	480.1	11960.	12150.
Stddev	159.	.1	.1	4.1	3.0	218.	159.
%RSD	1.204	.0133	.0263	.8553	.6277	1.821	1.307
#1	13090.	522.4	482.1	477.4	478.0	11810.	12030.
#2	13310.	522.3	481.9	483.2	482.3	12120.	12260.
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	12500.						
Range	5.400%						

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	W 528.4	12890.	W 538.5	W 456.0	12750.	508.7	W 530.4
Stddev	1.4	4.	4.9	4.4	147.	.2	.4
%RSD	.2629	.0294	.9024	.9678	1.154	.0387	.0734
#1	527.4	12890.	535.0	452.9	12650.	508.8	530.6
#2	529.4	12890.	541.9	459.2	12850.	508.5	530.1
Check ?	Chk Warn	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Warn
Value	500.0		500.0	500.0			500.0
Range	5.400%		5.400%	-5.400%			5.400%

Sample Name: CCV Acquired: 1/22/2015 21:44:40 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**482.9**	W **450.5**	**13080.**	**515.2**	**514.8**	**506.0**	**475.7**
Stddev	1.6	4.6	238.	1.6	6.7	6.1	.0
%RSD	.3270	1.029	1.816	.3166	1.295	1.210	.0061
#1	481.8	447.2	12910.	516.4	510.1	501.7	475.7
#2	484.0	453.7	13250.	514.1	519.6	510.4	475.7
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		500.0					
Range		-5.400%					

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	**509.9**	**479.5**
Stddev	4.5	.3
%RSD	.8873	.0570
#1	506.7	479.3
#2	513.1	479.7
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11897.	12144.	426560.
Stddev	56.	2.	3081.
%RSD	.46702	.01772	.72230
#1	11858.	12142.	428740.
#2	11936.	12145.	424380.

Sample Name: CCB Acquired: 1/22/2015 21:49:38 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280_A	Al3961_R	As1891_A	Au2427_A	B_2089_A	Ba4554_R	Be3130_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.2839**	**11.99**	**1.854**	**-.0016**	**.9110**	**.4463**	**.1041**
Stddev	.1409	9.85	2.273	.0256	.0473	.0840	.0252
%RSD	49.62	82.21	122.6	1561.	5.191	18.82	24.17
#1	-.3836	18.95	3.461	.0165	.9444	.3869	.1219
#2	-.1843	5.019	.2465	-.0198	.8775	.5057	.0863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3158_R	Cd2265_A	Co2286_A	Cr2677_A	Cu3273_A	Fe2599_R	K_7664_R
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9.689**	**.1128**	**.0032**	**.1189**	**2.361**	**9.250**	**-18.20**
Stddev	2.656	.0710	.0684	.1109	.153	2.705	14.71
%RSD	27.42	62.92	2130.	93.29	6.463	29.24	80.79
#1	7.811	.1630	.0516	.0405	2.253	7.337	-7.804
#2	11.57	.0626	-.0452	.1973	2.469	11.16	-28.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707_R	Mg2025_A	Mn2576_R	Mo2020_A	Na5895_R	Ni2316_A	Pb2203_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.829**	**6.963**	**.9655**	**3.633**	**96.86**	**.2422**	**.2826**
Stddev	.386	1.110	.0140	.516	6.92	.0019	.6012
%RSD	21.12	15.94	1.448	14.20	7.147	.7821	212.7
#1	2.102	6.178	.9556	3.998	91.97	.2409	.7077
#2	1.556	7.747	.9754	3.268	101.8	.2436	-.1425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 1/22/2015 21:49:38 Type: QC
Method: K6010-2011(v1630) Mode: CONC Corr. Factor: 1.000000
User: EAM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068_A	Se1960_A	Si2516_R	Sn1899_A	Sr4215_R	Ti3349_A	Tl1908_A
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.4283	3.368	28.97	.3638	.0619	1.025	.2196
Stddev	.7861	.185	7.46	.6509	.0470	.207	.8268
%RSD	183.6	5.483	25.74	178.9	75.92	20.25	376.5
#1	.1276	3.498	23.69	-.0965	.0287	1.171	.8043
#2	-.9841	3.237	34.24	.8241	.0951	.8778	-.3650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924_A	Zn2062_A
Units	ug/L	ug/L
Avg	.2391	.1139
Stddev	.0617	.1277
%RSD	25.81	112.1
#1	.2828	.2042
#2	.1955	.0236
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_3600_R	Y_2243_A	Y_3600_A
Units	Cts/S	Cts/S	Cts/S
Avg	11960.	12320.	434220.
Stddev	54.	43.	6002.
%RSD	.45198	.34871	1.3823
#1	11922.	12351.	438460.
#2	11998.	12290.	429970.

Logbooks and Supporting Documents

Katahdin Analytical Services, Inc.

Metals Preparation Benchsheet

Reagent Information:

HNO3: 86288 HCL: N/A H2SO4: 71333 Method: 7470

KMNO4: MR1422 K2S2O8: MR1413 NH2OH-HCl: MR1417

Standards/Spiking Information:

1ppm A : MWIS233

1ppm B : MWIS234

LCSW = 125uL of 1ppm A to 25mL

Spike(S/P) = 25uL of 1ppm A to 25mL

ICV = 600uL of 1ppm B to 100 mL

S0.2 = 20uL of 1ppm A to 100 mL

S0.5 = 50uL of 1ppm A to 100 mL

S1.0 = 100uL of 1ppm A to 100 mL

S5.0 = 500uL of 1ppm A to 100 mL

S10.0 = 1000uL of 1ppm A to 100 mL

REVIEWED
for 01.08.15
KATAHDIN ANALYTICAL METALS SECTION

Water Bath ID : A

Thermometer ID : DIG31

Digestion Start Time (@ 92.3 °C): 13:23

Digestion End Time(@ 91.0 °C): 15:23

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIA07HGW1	IA07HGW1	0.025	L	0.025	L	AQ	HG	GEJ	01/07/2015	N/A	N/A	N/A	N/A		
PBWIA07HGW1	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015	N/A	N/A	N/A	N/A		A
SI0018-001T	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						E
SI0027-001T	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						D
SI0027-002T	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						C
SI0027-003T	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						E
SI0027-004T	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						D
SI0027-005T	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						F
SI0027-006T	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						F
SI0027-006TP	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						F
SI0027-006TS	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						
TH0786-015T	IA07HGW1		L		L	AQ	HG	GEJ	01/07/2015						UM
PBT1221A			L		L										A
PBT1222A			L		L										A

GEJ 01.07.15

GEJ 01.07.15

GEJ 01.07.15

Digestion performed by: GEJ On: 01.07.15

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 86288 HCL: 88821 H2O2: N/A **Method:** 3010

LCS / Spike **LCS/Spiking Information:**

- ☑ ☐ CLPP-SPK-1 (ID/Vol): MS1902 / 0.05 mL
- ☑ ☑ CLPP-SPK-INT1 (ID/Vol): MW15237 / 0.50 mL
- ☑ ☑ CLPP-SPK-INT2 (ID/Vol): MW15290 / 0.50 mL
- ☐ ☐ Gold Spike ID/Vol): N/A / mL
- ☐ ☐ CLPP-SPK-4 (ID/Vol): N/A / mL

Hot Plate/Block ID : A
Start Time: 12:30 /Temp.(90-95°C) : 95
End Time: 15:52 /Temp.(90-95°C) : 92
Thermometer ID/Pos.: N/A / 1:1

Filter Paper: N/A

REVIEWED
01-08-15
KATAHDIN ANALYTICAL
METALS SECTION

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIA07ICW2	IA07ICW2	0.05	L	0.05	L	AQ	IC	GEJ	01/07/2015	N/A	N/A	N/A	N/A		
PBWIA07ICW2	IA07ICW2	↓	L	↓	L	AQ	IC	GEJ	01/07/2015	N/A	N/A	N/A	N/A		
SI0027-001T	IA07ICW2	0.01	L	↓	L	AQ	IC	GEJ	01/07/2015	↓	↓	↓	↓	↓	E
SI0027-002T	IA07ICW2	↓	L	↓	L	AQ	IC	GEJ	01/07/2015	↓	↓	↓	↓	↓	D
SI0027-003T	IA07ICW2	↓	L	↓	L	AQ	IC	GEJ	01/07/2015	↓	↓	↓	↓	↓	C
SI0027-004T	IA07ICW2	↓	L	↓	L	AQ	IC	GEJ	01/07/2015	↓	↓	↓	↓	↓	E
SI0027-005T	IA07ICW2	↓	L	↓	L	AQ	IC	GEJ	01/07/2015	↓	↓	↓	↓	↓	D
SI0027-006T	IA07ICW2	↓	L	↓	L	AQ	IC	GEJ	01/07/2015	↓	↓	↓	↓	↓	F
SI0048-002	IA07ICW2	0.05	L	↓	L	AQ	IC	GEJ	01/07/2015	↓	↓	↓	↓	↓	D
SI0048-~~N~~001	IA07ICW2	↓	L	↓	L	AQ	IC	GEJ	01/07/2015	↓	↓	↓	↓	↓	D
GEJ 01.07.15															
SI0027-006T P		0.01L		0.05L		↓	↓	↓	↓						F
SI0027-006TS		0.01L		0.05L		↓	↓	↓	↓						F
PBT1222A		0.01L		0.05L		↓	↓	↓	↓						

GEJ 01.07.15

Digestion performed by: GEJ On: 01.07.15

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 662858 HCL: N/A H2SO4: 71333

KMNO4: MR 1427 K2S2O8: MR1413 NH2OH-HCl: MR1424

Method: 7470

Standards/Spiking Information:

1ppm A : MW15279

1ppm B : MW15280

LCSW = 125uL of 1ppm A to 25mL

Spike(S/P) = 25uL of 1ppm A to 25mL

ICV = 600uL of 1ppm B to 100 mL

S0.2 = 20uL of 1ppm A to 100 mL

S0.5 = 50uL of 1ppm A to 100 mL

S1.0 = 100uL of 1ppm A to 100 mL

S5.0 = 500uL of 1ppm A to 100 mL

S10.0 = 1000uL of 1ppm A to 100 mL

REVIEWED
01-15-15
KATAHDIN ANALYTICAL
METALS SECTION

Water Bath ID : A

Thermometer ID : P41864

Digestion Start Time (@ 90 °C): 11:23

Digestion End Time(@ 92 °C): 13:40

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIA14HGW2	IA14HGW2	0.025	L	0.025	L	AQ	HG	GEJ	01/14/2015	N/A	N/A	N/A	N/A		
PBWIA14HGW2	IA14HGW2	〃	L	〃	L	AQ	HG	GEJ	01/14/2015	N/A	N/A	N/A	N/A		
SI0210-002	IA14HGW2	0.01	L	〃	L	AQ	HG	GEJ	01/14/2015						A
SI0230-002	IA14HGW2	0.025	L	〃	L	AQ	HG	GEJ	01/14/2015						D
SI0230-003	IA14HGW2	〃	L	〃	L	AQ	HG	GEJ	01/14/2015						D
SI0230-004	IA14HGW2	〃	L	〃	L	AQ	HG	GEJ	01/14/2015						D

GEJ 01.14.15

Digestion performed by: GEJ On: 01.14.15

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 88969 HCL: 85716 H2O2: N/A **Method:** 3010

LCS / Spike **LCS/Spiking Information:**

- ☑ ☑ CLPP-SPK-1 (ID/Vol): MS1902 / 0.05 mL
- ☑ ☑ CLPP-SPK-INT1 (ID/Vol): MW15270 / 0.50 mL
- ☑ ☑ CLPP-SPK-INT2 (ID/Vol): MW15283 / 0.50 mL
- ☐ ☐ Uranium Spike (ID/Vol): N/A / mL
- ☐ ☐ CLPP-SPK-4 (ID/Vol): N/A / mL

Hot Plate/Block ID : A

Start Time: 10:30 /Temp.(90-95°C) : 93

End Time: 17:20 /Temp.(90-95°C) : 95

Thermometer ID/Pos.: N/A / 4:3

Filter Paper: N/A

REVIEWED
1-16-15
KATAHDIN ANALYTICAL
METALS SECTION

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIA14ICW2	IA14ICW2	0.05	L	0.05	L	AQ	IC	GEJ	01/14/2015	N/A	N/A	N/A	N/A		
PBWIA14ICW2	IA14ICW2	↓	L		L	AQ	IC	GEJ	01/14/2015	N/A	N/A	N/A	N/A		
SI0210-002	IA14ICW2	0.010	L		L	AQ	IC	GEJ	01/14/2015						A
SI0212-003	IA14ICW2	0.05	L		L	AQ	IC	GEJ	01/14/2015						A
SI0212-004	IA14ICW2		L		L	AQ	IC	GEJ	01/14/2015						A
SI0230-002	IA14ICW2		L		L	AQ	IC	GEJ	01/14/2015						D
SI0230-003	IA14ICW2		L		L	AQ	IC	GEJ	01/14/2015						D
SI0230-004	IA14ICW2		L		L	AQ	IC	GEJ	01/14/2015						D
~~SI0194-003~~		0.05 L		L											A
~~SI0194-003P~~		L		L											A
~~SI0194-003S~~		L		L											A

GEJ 01.14.15

QA-064-Revision 2 - 01/08/2014 **Digestion performed by:** GEJ **On:** 01.14.15 **Page:** IA045 **Revision:** 00

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 86288 HCL: N/A H2SO4: 71333 **Method:** 7470

KMNO4: MR1427 K2S2O8: MR1413 NH2OH-HCl: MR1424

Standards/Spiking Information:

1ppm A : MW15279

1ppm B : MW15280

LCSW = 125uL of 1ppm A to 25mL

Spike(S/P) = 25uL of 1ppm A to 25mL

ICV = 600uL of 1ppm B to 100 mL

S0.2 = 20uL of 1ppm A to 100 mL

S0.5 = 50uL of 1ppm A to 100 mL

S1.0 = 100uL of 1ppm A to 100 mL

S5.0 = 500uL of 1ppm A to 100 mL

S10.0 = 1000uL of 1ppm A to 100 mL

REVIEWED
GEJ 01-16-15
KATAHDIN ANALYTICAL
METALS SECTION

Water Bath ID : A

Thermometer ID : MA

Digestion Start Time (@ 92 °C): 10:54

Digestion End Time(@ 99 °C): 12:54

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIA16HGW1	IA16HGW1	0.025	L	0.025	L	AQ	HG	GEJ	01/16/2015	N/A	N/A	N/A	N/A		
PBT1225A	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						
PBWIA16HGW1	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015	N/A	N/A	N/A	N/A		
SI0172-006T	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						A
SI0172-008T	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						A
SI0172-010T	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						A
SI0172-012T	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						A
SI0199-008	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						A
SI0199-~~TBT~~ 002T	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						B
SI0210-002	IA16HGW1	0.005	L	0.026	L	AQ	HG	GEJ	01/16/2015						A
SI0227-001T	IA16HGW1	0.025	L	0.025	L	AQ	HG	GEJ	01/16/2015						A
SI0227-002T	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						A
SI0227-003T	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						A
SI0227-004T	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						A
SI0230-001T	IA16HGW1		L		L	AQ	HG	GEJ	01/16/2015						F

* - matrix QC was performed on samples that had already been analyzed - QC samples were discarded GEJ 01-16-15

GEJ 01-16-15

Digestion performed by: GEJ On: 01-16-15

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 88969 HCL: 83855 H2O2: N/A **Method:** 3010

LCS / Spike **LCS/Spiking Information:**

- ☑ ☑ CLPP-SPK-1 (ID/Vol): MS1902 / 0.050 mL
- ☑ ☑ CLPP-SPK-INT1 (ID/Vol): MW15272 / 2.50 mL
- ☑ ☑ CLPP-SPK-INT2 (ID/Vol): MW15283 / 0.50 mL
- ☐ ☐ Uranium Spike (ID/Vol): N/A / mL
- ☐ ☐ CLPP-SPK-4 (ID/Vol): ↓ / mL

Hot Plate/Block ID : A

Start Time: 09:22 /Temp.(90-95°C) : 93

End Time: 16:43 /Temp.(90-95°C) : 94

Thermometer ID/Pos.: N/A / 6:1

Filter Paper: N/A

REVIEWED
EGJ 01-20-15
KATAHDIN ANALYTICAL
METALS SECTION

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIA16ICW1	IA16ICW1	0.050	L	0.050	L	AQ	IC	GEJ	01/16/2015	N/A	N/A	N/A	N/A		
PBT1223D	IA16ICW1	0.01	L		L	AQ	IC	GEJ	01/16/2015						
PBT1225A	IA16ICW1	↓	L		L	AQ	IC	GEJ	01/16/2015						
PBWIA16ICW1	IA16ICW1	0.05	L		L	AQ	IC	GEJ	01/16/2015	N/A	N/A	N/A	N/A		
SI0172-006T	IA16ICW1	0.01	L		L	AQ	IC	GEJ	01/16/2015						A
SI0172-008T	IA16ICW1	↓	L		L	AQ	IC	GEJ	01/16/2015						A
SI0172-010T	IA16ICW1		L		L	AQ	IC	GEJ	01/16/2015						A
SI0172-012T	IA16ICW1		L		L	AQ	IC	GEJ	01/16/2015						A
SI0199-002T	IA16ICW1		L		L	AQ	IC	GEJ	01/16/2015						E
SI0227-001T	IA16ICW1		L		L	AQ	IC	GEJ	01/16/2015						A
SI0227-002T	IA16ICW1		L		L	AQ	IC	GEJ	01/16/2015						↓
SI0227-003T	IA16ICW1		L		L	AQ	IC	GEJ	01/16/2015						
SI0227-004T	IA16ICW1		L		L	AQ	IC	GEJ	01/16/2015						
SI0230-001T	IA16ICW1	↓	L		L	AQ	IC	GEJ	01/16/2015						F
SI0260-013	IA16ICW1	0.05	L		L	AQ	IC	GEJ	01/16/2015						D
SI0260-023	IA16ICW1	↓	L		L	AQ	IC	GEJ	01/16/2015						↓
SI0260-023P	IA16ICW1		L		L	AQ	IC	GEJ	01/16/2015						
SI0260-023S	IA16ICW1		L		L	AQ	IC	GEJ	01/16/2015						
SI0279-001	IA16ICW1	↓	L	↓	L	AQ	IC	GEJ	01/16/2015						H

GEJ 01.19.15

Digestion performed by: GEJ On: 01.16.15

Katahdin Analytical Services, Inc.

Non-Volatile TCLP/SPLP Extraction Fluid Preparation and Use Logbook

FLUID PREPARATION

TCLP ☑ SPLP ☐	TCLP Fluid #:	Fluid Batch #:	Prep Date:	Prepared by:	Measured pH:
	1	1222	01.06.15	GES	4.94

Reagent	Manufacturer's Lot Number	Reagent Volume (mL)	Reagent Mass (g)	Fluid Final Volume (L)
Glacial Acetic Acid	51462	114.0	N.A.	20.0 L
Sodium Hydroxide	26131	N.A.	54.28	↓
0.6% Sulfuric Acid / 0.4% nitric acid				

FLUID USE LOG

Katahdin Sample Number	TCLP Extraction Start Date	Extract to be Analyzed for:			
		Metals	SVOA	Pest	Herb
PBT1222A	01.06.15	✓	✓	✓	✓
SI0027-1E	↓	✓	✓	—	—
2D		✓	—	—	—
3C		—	—	—	—
4E		—	—	—	—
5D		—	—	—	—
6F		—	—	—	—
SI0230-1F	01-14-15	✓			
SI0227-1A	↓	✓			

KATAHDIN ANALYTICAL SERVICES, INC. — Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☑	Extractor ID: #2	Room Thermometer ID: DIG-23	(Room Temp Criteria. 23(±2)°C)	
	SW846 1312 (SPLP) ☐	Balance ID: BAL-0[illegible]15	pH Meter ID: Orion 520A s/n 7422	pH Probe ID: 57332526-0038	
Solid pH Determination:	Date: 01.06.15 GEJ		Analyst: GEJ		
Rotary Extraction Started:	Date: 01.06.15	Time: 14:45 01.06.15	Analyst: GEJ	Room Temp. (degrees °C): 21.6	
Rotary Extraction Completed:	Date: 01.07.15	Time: 09:45	Analyst: GEJ	Room Temp. (degrees °C): 20.8	
Extraction Filtered:	Date: 01.07.15	Time: 12:05	Analyst: GEJ	Filter Lot #: R4MA07677	
Elapsed Extraction Time (HH:MM): 19:00		5% HNO_3 ID (used to wash filters): MRIYI		HNO_3 Lot # (used to preserve extracts): 86288	
Fluid 1 pH (Day of use): 4.44		Fluid 1 Expiration Date: 01.06.16			
Fluid 2 pH (Day of use): ———		Fluid 2 Expiration Date: ———			

II. EXTRACTION SETUP

TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
SI0027-1E	SL	✓			7.06	1.18	2,000	1	PBT1222A	100.69	4.96	M,S,P,H	51
SI0027-2D	SL	✓			6.89	1.15				100.26	4.97		30
SI0027-3C	SL	✓			7.33	1.15				100.86	5.02		29
SI-0027-4E	SL	✓			7.04	1.14				100.11	4.97		16
SI0027-5D	SL	✓			7.73	1.19				100.64	4.98		33
SI0027-6F	SL	✓			6.73	1.22				100.22	5.05		15
PBT1222A	Aq	———					2000	1	PBT1222A	—	4.94	M,S,P,H	35

KATAHDIN ANALYTICAL SERVICES, INC. — Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☑	Extractor ID: 1/2	Room Thermometer ID: DIG-23	(Room Temp Criteria. 23(±2)°C)	
	SW846 1312 (SPLP) ☑	Balance ID: BAL-08	pH Meter ID: Orion 520A s/n 7422	pH Probe ID: 57333526 - 0.03B	
Solid pH Determination:	Date: 01-14-15		Analyst: EA		
Rotary Extraction Started:	Date: 01-14-15	Time: 1720	Analyst: EA	Room Temp. (degrees °C): 21.2	
Rotary Extraction Completed:	Date: 01.15.15	Time: 09:30	Analyst: GEJ	Room Temp. (degrees °C): 20.2	
Extraction Filtered:	Date: 01-15-15	Time: 11:00 13:00	Analyst: GEJ/EAM	Filter Lot #: ~~R4MA0766~~ R4MA07677 R4JA 90344	
Elapsed Extraction Time (HH:MM): 16:20		5% HNO_3 ID (used to wash filters): MRM25		HNO_3 Lot # (used to preserve extracts): 8288	
Fluid 1 pH (Day of use): SPLP 1223 - 4.19 TCLP 1222 - 4.89 TCLP 1221 - 4.91		Fluid 1 Expiration Date: SPLP 1223 - 01-12-16 TCLP 1222 - 01-06-16 TCLP 1221 - 01-05-16			
Fluid 2 pH (Day of use): —		Fluid 2 Expiration Date: —			

II. EXTRACTION SETUP

TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
SPLP Cyanide blank	—			—	—	—	1120	Reag H_2O	—	—	6.46	C	18
SI 0199-2E CN	SL	✓		—	—	—	1120	↓		55.90	8.79	C	1
SI 0230-1F	SL	✓		—	7.75	1.44	2000	1	PBT 1222	99.95	4.92	M	N/A
SI 0227-1 A	↓	✓		—	7.73	1.52	↓	1	↓	99.99	4.97	↓	↓
-2	↓	✓		—	7.73	1.59	↓	1	PBT 1221	100.30	4.92	↓	↓
-3	↓	✓		—	7.90	1.55	↓	1	↓	100,00	4.97	↓	2
-4	↓	/		—	7.81	1.58	↓	1	↓	100,21	5.04	↓	21
SI 0199-2E (1)	↓			1	—	—	2000	SPLP 1	PBT 1223C	100.01	8.70	M, P	14
(2)	↓			1	—	—	↓	↓	PBT 1223D	99.94	8.64	M, P	3
PBT 1223C	—			—	—	—	2000	↓	—	—	4.57	M, P	11

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Quality Control Report

Blank Sample Summary Report

Cyanide, Reactive

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG157267	SW846 7.3.3	20-JAN-15	16-JAN-15	U 0.80 mg/Kg	1.0 mg/Kg

Ignitability

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG157230	SW846 1010A	14-JAN-15	N/A	> 71. Deg. C	71. Deg. C

Paint Filter Liquids Test

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG157289	SW846 9095B	20-JAN-15	N/A	NFL	

Sulfide,Reactive

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG157158	SW846 7.3.4	16-JAN-15	16-JAN-15	U 20. mg/Kg	27. mg/Kg

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG157022	SM2540	16-JAN-15	15-JAN-15	U 1 %	1 %

Quality Control Report

Laboratory Control Sample Summary Report

Cyanide, Reactive

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG157267-2	LCS	WG157267	20-JAN-15	16-JAN-15	mg/Kg	5	3.2	65	0-100	

Ignitability

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG157230-2	LCS	WG157230	14-JAN-15	N/A	Deg. C	27	26.	98	80-120	
WG157230-3	LCSD	WG157230	14-JAN-15	N/A	Deg. C	27	28.	106	80-120	7

Sulfide,Reactive

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG157158-2	LCS	WG157158	16-JAN-15	16-JAN-15	mg/Kg	985.8	870	88	30-120	

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG157022-2	LCS	WG157022	16-JAN-15	15-JAN-15	%	90	90.	100	80-120	

pH(Laboratory)

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG157086-1	LCS	WG157086	16-JAN-15	N/A	pH	7	7.0	100	90-110	

pH(Soil)

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG156986-1	LCS	WG156986	14-JAN-15	14-JAN-15	pH	7	7.0	100	90-110	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Duplicate Sample Summary Report

pH(Laboratory)

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG157086-2	SI0230-2	WG157086	16-JAN-15	pH	7.7	7.8	1	20

pH(Soil)

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG156986-2	SI0230-1	WG156986	14-JAN-15	pH	8.3	8.2	0	20

Sample Data Section

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfide H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Report of Analytical Results

Client: Dana Miller
EnSafe
5724 Summer Trees Drive
Memphis,TN 38134

Lab Sample ID: SI0230-1
Report Date: 02-FEB-15
Client PO: 16518
Project: Navy Clean WE15-03-06 NWIRP Bethpage,
SDG: SI0230

Sample Description	Matrix	Date Sampled	Date Received
IDWS-0312-011315	SL	13-JAN-15 11:30:00	14-JAN-15

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Cyanide, Reactive	U0.80 mg/Kg	1.0	0.16	SW846 7.3.3	WG157267	20-JAN-15 12:42:01	SW846 7.3.4	16-JAN-15	ZS	
Ignitability	>71. Deg. C	71.	71.	SW846 1010A	WG157230	14-JAN-15 10:52:00	N/A	N/A	RO	
Paint Filter Liquids Test	NFL			SW846 9095B	WG157289	20-JAN-15 14:21:00	N/A	N/A	RO	
Sulfide,Reactive	U20 mg/Kg	27	16.39	SW846 7.3.4	WG157158	16-JAN-15 16:10:00	SW846 7.3.4	16-JAN-15	AZ	
Total Solids	79. %	1		SM2540G	WG157022	16-JAN-15 09:42:30	SM2540G	15-JAN-15	AZ	
pH(Soil)	8.3 pH	0.10	0.10	SW846 9045D	WG156986	14-JAN-15 17:50:00	SW846 9045C	14-JAN-15	AZ	

Report of Analytical Results

Client: Dana Miller
EnSafe
5724 Summer Trees Drive
Memphis,TN 38134

Lab Sample ID: SI0230-2
Report Date: 02-FEB-15
Client PO: 16518
Project: Navy Clean WE15-03-06 NWIRP Bethpage,
SDG: SI0230

Sample Description	Matrix	Date Sampled	Date Received
IDWGW-3178-011315	AQ	13-JAN-15 12:00:00	14-JAN-15

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
pH(Laboratory)	7.7 pH	0.10	0.10	SM 4500H-B	WG157086	16-JAN-15 15:32:00	N/A	N/A	AZ	H1

Report of Analytical Results

Client: Dana Miller
EnSafe
5724 Summer Trees Drive
Memphis,TN 38134

Lab Sample ID: SI0230-3
Report Date: 02-FEB-15
Client PO: 16518
Project: Navy Clean WE15-03-06 NWIRP Bethpage,
SDG: SI0230

Sample Description	Matrix	Date Sampled	Date Received
IDWGW-F0A37-011315	AQ	13-JAN-15 12:30:00	14-JAN-15

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
pH(Laboratory)	7.6 pH	0.10	0.10	SM 4500H-B	WG157086	16-JAN-15 15:32:00	N/A	N/A	AZ	H1

Report of Analytical Results

Client: Dana Miller
EnSafe
5724 Summer Trees Drive
Memphis,TN 38134

Lab Sample ID: SI0230-4
Report Date: 02-FEB-15
Client PO: 16518
Project: Navy Clean WE15-03-06 NWIRP Bethpage,
SDG: SI0230

Sample Description	Matrix	Date Sampled	Date Received
IDWGW-EG332-011315	AQ	13-JAN-15 13:00:00	14-JAN-15

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
pH(Laboratory)	8.0 pH	0.10	0.10	SM 4500H-B	WG157086	16-JAN-15 15:32:00	N/A	N/A	AZ	H1

Logbooks and Supporting Documents

WET CHEMISTRY BATCH REPORT
Jan 20 2015, 05:06 pm
Batch: WG157267

Parameter: Cyanide, Reactive

Date Analyzed: 20-JAN-15

Analyst Initials: ZS

Prep Date: 16-JAN-15

Prep Method: SW846 7.3.4

Prep Chemist: AZ

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SI0230-1	SAMP	SW846 7.3.3	10.512g	190.00mL	.951	3.49519	U0.80 mg/Kg	79.	1	0.16	1.0		
SI0301-1	SAMP	SW846 7.3.3	10.199g	190.00mL	.98	.76857	U0.80 mg/Kg	94.	1	0.16	1.0		
SI0301-2	SAMP	SW846 7.3.3	11.674g	190.00mL	.857	.2014	U0.80 mg/Kg	78.	1	0.16	1.0		
WG157267-1	MBLANK	SW846 7.3.3	10.000g	190.00mL	1	.25306	U0.80 mg/Kg	NA	1	0.16	1.0		
WG157267-2	LCS	SW846 7.3.3	10.000g	190.00mL	1	170.09	3.2 mg/Kg	NA	1	0.16	1.0		65
WG157267-3	DUP	SW846 7.3.3	10.452g	190.00mL	.957	-.337	U1.0 mg/Kg	NA	1	0.16	1.0	NC	
WG157267-4	MS	SW846 7.3.3	10.859g	190.00mL	.921	102.888	1.9 ~~1.8~~ mg/Kg	NA	1	0.16	1.0		~~36~~ 37

Comments:

SI0230-1	Roll off 0316
SI0301-1	Roll off 9939 (#2)
SI0301-2	Roll off 1408 (#7)
WG157267-1	SI0301-1
WG157267-2	SI0301-1
WG157267-3	SI0301-1
WG157267-4	SI0301-1

Entered by: ZS Date: 1.20.15 Accepted by: _____ Date: 1/20/15

WET CHEMISTRY BATCH REPORT
Jan 26 2015, 04:09 pm
Batch: WG157269

Parameter: Total Cyanide

Date Analyzed: 20-JAN-15

Analyst Initials: ZS

Prep Date: 20-JAN-15

Prep Method: EPA 335.4

Prep Chemist: ZS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SI0267-5	SAMP	EPA 335.4	50.000mL	50.000mL	2	432.241	430 ug/L	NA	10	7.9	20.		
SI0293-1	SAMP	EPA 335.4	50.000mL	50.000mL	1	15.0984	15. ug/L	NA	10	4.0	10.		
SI0316-2	SAMP	EPA 335.4	50.000mL	50.000mL	1	2.04069	U10. ug/L	NA	10	4.0	10.		
WG157269-1	MBLANK	EPA 335.4	50.000mL	50.000mL	1	-.0005	U8.0 ug/L	NA	10	4.0	10.		
WG157269-2	LCS	EPA 335.4	50.000mL	50.000mL	1	196.629	200 ug/L	NA	10	4.0	10.		98
WG157269-3	DUP	EPA 335.4	50.000mL	50.000mL	1	15.6392	16. ug/L	NA	10	4.0	10.	4	

Comments:

WG157269-1	SI0293-1
WG157269-2	SI0293-1
WG157269-3	SI0293-1

Entered by: ZS Date: 1.26.15 Accepted by: [signature] Date: 01/28/15

WET CHEMISTRY BATCH REPORT
Jan 26 2015, 04:10 pm
Batch: WG157270

Parameter: Total Cyanide

Date Analyzed: 20-JAN-15

Analyst Initials: ZS

Prep Date: 20-JAN-15

Prep Method: EPA 335.4

Prep Chemist: ZS

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SI0299-2	SAMP	EPA 335.4	50.000mL	50.000mL	1	.35279	U5.0 ug/L	NA	5	4.0	5.0		
SI0312-2	SAMP	EPA 335.4	50.000mL	50.000mL	1	1.40549	U5.0 ug/L	NA	5	4.0	5.0		
WG157270-1	MBLANK	EPA 335.4	50.000mL	50.000mL	1	-.0005	U5.0 ug/L	NA	5	4.0	5.0		
WG157270-2	LCS	EPA 335.4	50.000mL	50.000mL	1	196.629	200 ug/L	NA	5	4.0	5.0		98
WG157270-3	MS	EPA 335.4	50.000mL	50.000mL	1	67.0637	67. ug/L	NA	5	4.0	5.0		67
WG157270-4	MS	EPA 335.4	50.000mL	50.000mL	1	95.1935	95. ug/L	NA	5	4.0	5.0		95

Comments:

WG157270-1	SI0299-2
WG157270-2	SI0299-2
WG157270-3	SI0299-2
WG157270-4	SI0312-2

Entered by: ZS Date: 1.26.15 Accepted by: Date: 1/28/15

KATAHDIN ANALYTICAL SERVICES, INC.
Wet Chemistry Analysis Run Information Sheet

Analyte: CYANIDE	**Analyst:** ZS
Instrument: KONELAB 20	**Analysis Date:** 1·20·15

Analytical Method (Check all that apply):

☒ SW846 9012M ☒ SW846 7.3.4 (Reactive) ☒ EPA 335.4

Reagent Information:

Reagent Name	Reagent ID	Expiration Date
Pyridine / Barbituric Acid	W12701	3·10·15
Phosphate Buffer	SWL3582	12·14·15
Chloramine-T (dry reagent)	SWL3425	12·19·15
Chloramine-T Solution	Prepared on day of use from dry reagent	
10 N NaOH Solution	SWL37907	7·30·15
0.25 N NaOH Solution	Prepared on day of use from 10 N NaOH	

Standards Information:

Standard Name	Concentration	ID	Expiration Date
Cal. Standard / CCV Stock	1000 mg/L	SWL3532	1·31·15
Cal. Std. / CCV Intermediate	50 mg/L	W12662	2·18·15
250 ug/L Calibration Standard	250 ug/L	Prepared on day of use	
CCV	125 ug/L	Prepared on day of use	
ICV Stock	1000 mg/L	SWL3670	6·1·15
ICV Intermediate	50 mg/L	W12663	2·18·15
ICV	200 ug/L	Prepared on day of use	

Notes:

1) Some reagents and standards were prepared on day of use by dilution with reagent water as follows:

Reagent or Standard	Prepared From	Amount Added	Final Volume
Chloramine-T Solution	Chloramine-T (dry reagent)	1.0 g	100 mL
0.25 N NaOH	10 N NaOH	25 mL	1000 mL
Cal. Std. / CCV Intermediate	Cal. Std. / CCV Stock	0.50 mL	10.0 mL
250 ug/L Calibration Standard	Cal. Std. / CCV Intermediate	0.125 mL	25.0 mL
CCV	250 ug/L Calibration Standard	5.0 mL	10.0 mL
ICV Intermediate	ICV Stock	0.500 mL	10.0 mL
ICV	ICV Intermediate	0.100 mL	25.0 mL

2) Additional calibration standards (100, 50, 25, 10, 5 ug/L) prepared by instrument during analysis through dilution of the 250 ug/L calibration standard.

Reactive WG157267 BLM R305365

SW9012 WG157268 BL R305948

E335.4 WG157269 BLD R305949

E335.4-L WG157270 BLM R305950

Aquakem v. 7.2									
Results from time period:									
Tue Jan 20 09:04:04 2015									
Tue Jan 20 16:59:51 2015									
Sample Id	Test short name	Result	Result unit	Result date and time	Dil. Factor	Response	Blank init abs. (A)	Main abs. 1	Comments
CN-0	Cyanide	0.4043	µg/l	1/20/15 11:40:59	1	0.00687	0.00077	0.00765	
CN-250	Cyanide	4.91599	µg/l	1/20/15 11:41:00	50	0.01127	-0.00006	0.01121	
CN-250	Cyanide	9.56476	µg/l	1/20/15 11:41:01	25	0.0158	-0.00014	0.01566	
CN-250	Cyanide	25.97104	µg/l	1/20/15 11:41:02	10	0.0318	0.00137	0.03317	
CN-250	Cyanide	50.27011	µg/l	1/20/15 11:41:03	5	0.0555	0.00077	0.05627	
CN-250	Cyanide	98.34305	µg/l	1/20/15 11:41:04	2.5	0.10238	0.00237	0.10474	
CN-250	Cyanide	250.53073	µg/l	1/20/15 11:41:05	1	0.25078	0.00137	0.25215	
CN-CCV	Cyanide	118.0192	µg/l	1/20/15 12:25:13	1	0.12156	-0.00025	0.12131	94%
CN-CCB	Cyanide	0.22565	µg/l	1/20/15 12:25:14	1	0.0067	-0.00021	0.00649	
CN-ICV	Cyanide	186.96216	µg/l	1/20/15 12:25:15	1	0.18879	-0.00027	0.18852	93%
RCN-Blank	Cyanide	0.25306	µg/l	1/20/15 12:25:16	1	0.00672	-0.00023	0.00649	REACTIVE CYANIDE
RCN-LCS	Cyanide	170.09038	µg/l	1/20/15 12:25:17	1	0.17234	0.00663	0.17897	REACTIVE CYANIDE
RCN SI0230-1	Cyanide	-0.14809	µg/l	1/20/15 12:25:18	1	0.00633	-0.00017	0.00616	REACTIVE CYANIDE
RCN SI0301-1	Cyanide	0.76857	µg/l	1/20/15 12:25:19	1	0.00723	-0.00019	0.00704	REACTIVE CYANIDE
RCN SI0301-1 DUP	Cyanide	-0.12683	µg/l	1/20/15 12:25:20	1	0.00635	-0.00016	0.00619	REACTIVE CYANIDE
RCN SI0301-1 MS	Cyanide	102.88863	µg/l	1/20/15 12:25:21	1	0.10681	0.0013	0.10811	REACTIVE CYANIDE
RCN SI0301-2	Cyanide	0.2014	µg/l	1/20/15 12:25:22	1	0.00667	0.00076	0.00744	REACTIVE CYANIDE
Blank 1/20	Cyanide	-0.04447	µg/l	1/20/15 12:25:23	1	0.00643	0.0002	0.00664	
LCS 1/20	Cyanide	178.71634	µg/l	1/20/15 12:31:26	1	0.18075	0.0001	0.18085	89%
CN-CCV	Cyanide	119.99535	µg/l	1/20/15 12:31:27	1	0.12349	-0.00025	0.12324	96%
CN-CCB	Cyanide	0.46371	µg/l	1/20/15 12:31:28	1	0.00693	0.00033	0.00726	
High 1/20	Cyanide	227.98793	µg/l	1/20/15 12:31:29	1	0.2288	-0.00006	0.22873	91%
Low 1/20	Cyanide	9.87691	µg/l	1/20/15 12:31:30	1	0.01611	0.00006	0.01617	99%
SI0293-1	Cyanide	15.09846	µg/l	1/20/15 12:31:31	1	0.0212	0.00074	0.02194	REPORTED
WG157269-3	Cyanide	15.63923	µg/l	1/20/15 12:31:32	1	0.02173	0.00006	0.02179	REPORTED
SI0299-2	Cyanide	0.26452	µg/l	1/20/15 12:31:33	1	0.00673	0.00023	0.00696	RERUN TO CHECK
SI0299-2 MS	Cyanide	79.13854	µg/l	1/20/15 12:31:34	1	0.08365	-0.00002	0.08362	RERUN TO CHECK
SI0312-2	Cyanide	1.1804	µg/l	1/20/15 12:31:35	1	0.00763	0.00007	0.0077	RERUN TO CHECK
SI0312-2 MS	Cyanide	92.75763	µg/l	1/20/15 12:31:36	1	0.09693	0.00006	0.09698	RERUN TO CHECK
CN-CCV	Cyanide	128.4944	µg/l	1/20/15 12:35:45	1	0.13178	-0.00024	0.13154	103%
CN-CCB	Cyanide	-0.43466	µg/l	1/20/15 12:35:46	1	0.00605	-0.00015	0.0059	
RCN SI0230-1	Cyanide	3.49519	µg/l	1/20/15 12:42:01	1	0.00989	-0.00008	0.00981	REACTIVE CYANIDE
RCN SI0301-1 DUP	Cyanide	-0.33707	µg/l	1/20/15 12:42:02	1	0.00615	-0.00023	0.00592	REACTIVE CYANIDE
WG157268-1	Cyanide	-0.00051	µg/l	1/20/15 12:42:03	1	0.00648	-0.00019	0.00629	REPORTED
WG157269-1	Cyanide	-0.00051	µg/l	1/20/15 12:42:03	1	0.00648	-0.00019	0.00629	REPORTED
WG157270-1	Cyanide	-0.00051	µg/l	1/20/15 12:42:03	1	0.00648	-0.00019	0.00629	REPORTED
CN-CCV	Cyanide	125.17762	µg/l	1/20/15 12:44:14	1	0.12854	-0.00029	0.12825	100%

CN-CCB	Cyanide	-0.19832	µg/l	1/20/15 12:44:15	1	0.00628	-0.00025	0.00603	
CN-CCV	Cyanide	-110.66643	µg/l	1/20/15 12:59:45	1	-0.10144	0.25079	0.14935	-89%
CN-CCB	Cyanide	0.05419	µg/l	1/20/15 12:59:46	1	0.00653	-0.00025	0.00628	
WG157268-2	Cyanide	196.62941	µg/l	1/20/15 12:59:47	1	0.19822	0.00016	0.19838	98%
WG157269-2	Cyanide	196.62941	µg/l	1/20/15 12:59:47	1	0.19822	0.00016	0.19838	98%
WG157270-2	Cyanide	196.62941	µg/l	1/20/15 12:59:47	1	0.19822	0.00016	0.19838	98%
High 1/20	Cyanide	241.62114	µg/l	1/20/15 12:59:48	1	0.24209	-0.00009	0.242	97%
CN-CCV	Cyanide	126.40045	µg/l	1/20/15 13:02:27	1	0.12974	-0.00014	0.1296	101%
CN-CCB	Cyanide	-0.21068	µg/l	1/20/15 13:02:28	1	0.00627	-0.00023	0.00604	
CN-CCV	Cyanide	122.62946	µg/l	1/20/15 14:09:10	1	0.12606	-0.00021	0.12585	98%
CN-CCB	Cyanide	0.022	µg/l	1/20/15 14:09:11	1	0.0065	-0.00017	0.00633	
SI0299-2	Cyanide	0.35279	µg/l	1/20/15 14:09:12	1	0.00682	0.00003	0.00685	REPORTED
WG157270-3	Cyanide	67.06376	µg/l	1/20/15 14:09:13	1	0.07187	-0.00008	0.07179	REPORTED
SI0312-2	Cyanide	1.40549	µg/l	1/20/15 14:09:14	1	0.00785	-0.00014	0.0077	REPORTED
WG157270-4	Cyanide	95.19351	µg/l	1/20/15 14:09:15	1	0.0993	-0.00009	0.09921	REPORTED
SI0316-2	Cyanide	2.04069	µg/l	1/20/15 14:09:16	1	0.00847	0.00008	0.00854	REPORTED
SI0260-13	Cyanide	0.25645	µg/l	1/20/15 14:09:17	1	0.00673	0.00013	0.00685	REPORTED
SI0260-23	Cyanide	-0.05591	µg/l	1/20/15 14:09:18	1	0.00642	0.00019	0.00661	RERUN TO CHECK
SI0341-11	Cyanide	-0.02178	µg/l	1/20/15 14:09:19	1	0.00646	0.00025	0.00671	RERUN TO CHECK
SI0260-5	Cyanide	7.56663	µg/l	1/20/15 14:09:20	1	0.01386	0.00036	0.01421	REPORTED
SI0260-7	Cyanide	3.30259	µg/l	1/20/15 14:13:57	1	0.0097	0.00073	0.01043	REPORTED
CN-CCV	Cyanide	128.29802	µg/l	1/20/15 14:13:58	1	0.13159	-0.00011	0.13148	103%
CN-CCB	Cyanide	-0.0493	µg/l	1/20/15 14:13:59	1	0.00643	-0.00015	0.00627	
SI0260-9	Cyanide	1.055	µg/l	1/20/15 14:14:00	1	0.00751	0.00014	0.00765	REPORTED
SI0260-11	Cyanide	1.3021	µg/l	1/20/15 14:14:01	1	0.00775	0	0.00774	REPORTED
SI0260-21	Cyanide	6.86254	µg/l	1/20/15 14:14:02	1	0.01317	0.00017	0.01334	REPORTED
SI0260-22	Cyanide	13.45963	µg/l	1/20/15 14:14:03	1	0.0196	0.00012	0.01973	REPORTED
CN-CCV	Cyanide	130.28772	µg/l	1/20/15 14:16:37	1	0.13353	-0.00029	0.13324	104%
CN-CCB	Cyanide	-0.13615	µg/l	1/20/15 14:16:38	1	0.00634	-0.00025	0.00609	
SI0260-23	Cyanide	0.20806	µg/l	1/20/15 14:24:55	1	0.00668	-0.00012	0.00656	REPORTED
SI0341-11	Cyanide	0.05516	µg/l	1/20/15 14:24:56	1	0.00653	-0.00011	0.00642	REPORTED
CN-CCV	Cyanide	127.78664	µg/l	1/20/15 14:27:09	1	0.13109	-0.00025	0.13084	102%
CN-CCB	Cyanide	-0.04113	µg/l	1/20/15 14:27:10	1	0.00644	-0.00029	0.00614	
CN-CCV	Cyanide	128.30067	µg/l	1/20/15 16:07:49	1	0.13159	-0.00025	0.13134	103%
CN-CCB	Cyanide	-0.05754	µg/l	1/20/15 16:07:50	1	0.00642	0.00001	0.00643	
SI0341-1	Cyanide	1.23326	µg/l	1/20/15 16:07:51	1	0.00768	0.00002	0.0077	REPORTED
SI0341-3	Cyanide	1.73631	µg/l	1/20/15 16:07:52	1	0.00817	0.0001	0.00827	REPORTED
SI0341-5	Cyanide	0.64999	µg/l	1/20/15 16:07:53	1	0.00711	0.00015	0.00726	REPORTED
SI0341-7	Cyanide	0.91015	µg/l	1/20/15 16:07:54	1	0.00736	0.0005	0.00786	REPORTED
SI0341-9	Cyanide	1.52407	µg/l	1/20/15 16:07:55	1	0.00796	0.0009	0.00886	REPORTED
SI0267-5	Cyanide	430.63245	µg/l	1/20/15 16:07:56	1	0.42641	0.00014	0.42655	AUTODILUTED
SI0268-2	Cyanide	1642.04468	µg/l	1/20/15 16:07:57	1	1.60771	0.00053	1.60824	HIGH, DILUTE
CN-CCV	Cyanide	135.61249	µg/l	1/20/15 16:10:54	1	0.13872	-0.0002	0.13852	108%

CN-CCB	Cyanide	0.12499	µg/l	1/20/15 16:10:55	1	0.0066	-0.0001	0.0065	
SI0267-5	Cyanide	432.24158	µg/l	1/20/15 16:21:07	2	0.21723	-0.00008	0.21714	REPORTED
CN-CCV	Cyanide	130.04469	µg/l	1/20/15 16:23:29	1	0.13329	-0.00025	0.13304	104%
CN-CCB	Cyanide	-0.1287	µg/l	1/20/15 16:23:30	1	0.00635	-0.00011	0.00624	
SI0268-2	Cyanide	1824.42419	µg/l	1/20/15 16:29:03	100	0.02427	-0.00027	0.024	HIGH, DILUTE
CN-CCV	Cyanide	135.56036	µg/l	1/20/15 16:31:56	1	0.13867	-0.00015	0.13852	108%
CN-CCB	Cyanide	-0.12717	µg/l	1/20/15 16:31:57	1	0.00635	0.00001	0.00636	
SI0268-2	Cyanide	1616.75427	µg/l	1/20/15 16:42:42	10	0.16413	-0.00016	0.16398	REPORTED
CN-CCV	Cyanide	133.0432	µg/l	1/20/15 16:45:04	1	0.13621	-0.00015	0.13606	106%
CN-CCB	Cyanide	0.11773	µg/l	1/20/15 16:45:05	1	0.00659	-0.00001	0.00659	

Aquakem v. 7.2									
Results from time period:									
Tue Jan 20 09:04:04 2015									
Tue Jan 20 16:45:05 2015									
Sample Id	Test short name	Result	Result unit	Result date and time	Dil. Factor	Response	Blank init abs. (A)	Main abs. 1	Comments
CN-0	Cyanide	0.4043	µg/l	1/20/15 11:40:59	1	0.00687	0.00077	0.00765	
CN-250	Cyanide	4.91599	µg/l	1/20/15 11:41:00	50	0.01127	-0.00006	0.01121	
CN-250	Cyanide	9.56476	µg/l	1/20/15 11:41:01	25	0.0158	-0.00014	0.01566	
CN-250	Cyanide	25.97104	µg/l	1/20/15 11:41:02	10	0.0318	0.00137	0.03317	
CN-250	Cyanide	50.27011	µg/l	1/20/15 11:41:03	5	0.0555	0.00077	0.05627	
CN-250	Cyanide	98.34305	µg/l	1/20/15 11:41:04	2.5	0.10238	0.00237	0.10474	
CN-250	Cyanide	250.53073	µg/l	1/20/15 11:41:05	1	0.25078	0.00137	0.25215	
CN-CCV	Cyanide	118.0192	µg/l	1/20/15 12:25:13	1	0.12156	-0.00025	0.12131	94%
CN-CCB	Cyanide	0.22565	µg/l	1/20/15 12:25:14	1	0.0067	-0.00021	0.00649	
CN-ICV	Cyanide	186.96216	µg/l	1/20/15 12:25:15	1	0.18879	-0.00027	0.18852	93%
WG157267-1	Cyanide	0.25306	µg/l	1/20/15 12:25:16	1	0.00672	-0.00023	0.00649	REPORTED
WG157267-2	Cyanide	170.09038	µg/l	1/20/15 12:25:17	1	0.17234	0.00663	0.17897	REPORTED
RCN SI0230-1	Cyanide	-0.14809	µg/l	1/20/15 12:25:18	1	0.00633	-0.00017	0.00616	RERUN TO CHECK
RCN SI0301-1	Cyanide	0.76857	µg/l	1/20/15 12:25:19	1	0.00723	-0.00019	0.00704	REPORTED
RCN SI0301-1 DUP	Cyanide	-0.12683	µg/l	1/20/15 12:25:20	1	0.00635	-0.00016	0.00619	RERUN TO CHECK
WG157267-4	Cyanide	102.88863	µg/l	1/20/15 12:25:21	1	0.10681	0.0013	0.10811	REPORTED
RCN SI0301-2	Cyanide	0.2014	µg/l	1/20/15 12:25:22	1	0.00667	0.00076	0.00744	REPORTED
Blank 1/20	Cyanide	-0.04447	µg/l	1/20/15 12:25:23	1	0.00643	0.0002	0.00664	NOT FOR REACTIVE VERBALS
LCS 1/20	Cyanide	178.71634	µg/l	1/20/15 12:31:26	1	0.18075	0.0001	0.18085	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	119.99535	µg/l	1/20/15 12:31:27	1	0.12349	-0.00025	0.12324	96%
CN-CCB	Cyanide	0.46371	µg/l	1/20/15 12:31:28	1	0.00693	0.00033	0.00726	
High 1/20	Cyanide	227.98793	µg/l	1/20/15 12:31:29	1	0.2288	-0.00006	0.22873	NOT FOR REACTIVE VERBALS
Low 1/20	Cyanide	9.87691	µg/l	1/20/15 12:31:30	1	0.01611	0.00006	0.01617	NOT FOR REACTIVE VERBALS
SI0293-1	Cyanide	15.09846	µg/l	1/20/15 12:31:31	1	0.0212	0.00074	0.02194	NOT FOR REACTIVE VERBALS
SI0293-1 DUP	Cyanide	15.63923	µg/l	1/20/15 12:31:32	1	0.02173	0.00006	0.02179	NOT FOR REACTIVE VERBALS
SI0299-2	Cyanide	0.26452	µg/l	1/20/15 12:31:33	1	0.00673	0.00023	0.00696	NOT FOR REACTIVE VERBALS
SI0299-2 MS	Cyanide	79.13854	µg/l	1/20/15 12:31:34	1	0.08365	-0.00002	0.08362	NOT FOR REACTIVE VERBALS
SI0312-2	Cyanide	1.1804	µg/l	1/20/15 12:31:35	1	0.00763	0.00007	0.0077	NOT FOR REACTIVE VERBALS
SI0312-2 MS	Cyanide	92.75763	µg/l	1/20/15 12:31:36	1	0.09693	0.00006	0.09698	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	128.4944	µg/l	1/20/15 12:35:45	1	0.13178	-0.00024	0.13154	103%
CN-CCB	Cyanide	-0.43466	µg/l	1/20/15 12:35:46	1	0.00605	-0.00015	0.0059	
RCN SI0230-1	Cyanide	3.49519	µg/l	1/20/15 12:42:01	1	0.00989	-0.00008	0.00981	REPORTED
WG157267-3	Cyanide	-0.33707	µg/l	1/20/15 12:42:02	1	0.00615	-0.00023	0.00592	REPORTED
Blank 1/20	Cyanide	-0.00051	µg/l	1/20/15 12:42:03	1	0.00648	-0.00019	0.00629	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	125.17762	µg/l	1/20/15 12:44:14	1	0.12854	-0.00029	0.12825	100%
CN-CCB	Cyanide	-0.19832	µg/l	1/20/15 12:44:15	1	0.00628	-0.00025	0.00603	
CN-CCV	Cyanide	-110.66643	µg/l	1/20/15 12:59:45	1	-0.10144	0.25079	0.14935	-89%
CN-CCB	Cyanide	0.05419	µg/l	1/20/15 12:59:46	1	0.00653	-0.00025	0.00628	
LCS 1/20	Cyanide	196.62941	µg/l	1/20/15 12:59:47	1	0.19822	0.00016	0.19838	NOT FOR REACTIVE VERBALS
High 1/20	Cyanide	241.62114	µg/l	1/20/15 12:59:48	1	0.24209	-0.00009	0.242	NOT FOR REACTIVE VERBALS

CN-CCV	Cyanide	126.40045	µg/l	1/20/15 13:02:27	1	0.12974	-0.00014	0.1296	101%
CN-CCB	Cyanide	-0.21068	µg/l	1/20/15 13:02:28	1	0.00627	-0.00023	0.00604	
CN-CCV	Cyanide	122.62946	µg/l	1/20/15 14:09:10	1	0.12606	-0.00021	0.12585	98%
CN-CCB	Cyanide	0.022	µg/l	1/20/15 14:09:11	1	0.0065	-0.00017	0.00633	
SI0299-2	Cyanide	0.35279	µg/l	1/20/15 14:09:12	1	0.00682	0.00003	0.00685	NOT FOR REACTIVE VERBALS
SI0299-2 MS	Cyanide	67.06376	µg/l	1/20/15 14:09:13	1	0.07187	-0.00008	0.07179	NOT FOR REACTIVE VERBALS
SI0312-2	Cyanide	1.40549	µg/l	1/20/15 14:09:14	1	0.00785	-0.00014	0.0077	NOT FOR REACTIVE VERBALS
SI0312-2 MS	Cyanide	95.19351	µg/l	1/20/15 14:09:15	1	0.0993	-0.00009	0.09921	NOT FOR REACTIVE VERBALS
SI0316-2	Cyanide	2.04069	µg/l	1/20/15 14:09:16	1	0.00847	0.00008	0.00854	NOT FOR REACTIVE VERBALS
SI0260-13	Cyanide	0.25645	µg/l	1/20/15 14:09:17	1	0.00673	0.00013	0.00685	NOT FOR REACTIVE VERBALS
SI0260-23	Cyanide	-0.05591	µg/l	1/20/15 14:09:18	1	0.00642	0.00019	0.00661	NOT FOR REACTIVE VERBALS
SI0341-11	Cyanide	-0.02178	µg/l	1/20/15 14:09:19	1	0.00646	0.00025	0.00671	NOT FOR REACTIVE VERBALS
SI0260-5	Cyanide	7.56663	µg/l	1/20/15 14:09:20	1	0.01386	0.00036	0.01421	NOT FOR REACTIVE VERBALS
SI0260-7	Cyanide	3.30259	µg/l	1/20/15 14:13:57	1	0.0097	0.00073	0.01043	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	128.29802	µg/l	1/20/15 14:13:58	1	0.13159	-0.00011	0.13148	103%
CN-CCB	Cyanide	-0.0493	µg/l	1/20/15 14:13:59	1	0.00643	-0.00015	0.00627	
SI0260-9	Cyanide	1.055	µg/l	1/20/15 14:14:00	1	0.00751	0.00014	0.00765	NOT FOR REACTIVE VERBALS
SI0260-11	Cyanide	1.3021	µg/l	1/20/15 14:14:01	1	0.00775	0	0.00774	NOT FOR REACTIVE VERBALS
SI0260-21	Cyanide	6.86254	µg/l	1/20/15 14:14:02	1	0.01317	0.00017	0.01334	NOT FOR REACTIVE VERBALS
SI0260-22	Cyanide	13.45963	µg/l	1/20/15 14:14:03	1	0.0196	0.00012	0.01973	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	130.28772	µg/l	1/20/15 14:16:37	1	0.13353	-0.00029	0.13324	104%
CN-CCB	Cyanide	-0.13615	µg/l	1/20/15 14:16:38	1	0.00634	-0.00025	0.00609	
SI0260-23	Cyanide	0.20806	µg/l	1/20/15 14:24:55	1	0.00668	-0.00012	0.00656	NOT FOR REACTIVE VERBALS
SI0341-11	Cyanide	0.05516	µg/l	1/20/15 14:24:56	1	0.00653	-0.00011	0.00642	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	127.78664	µg/l	1/20/15 14:27:09	1	0.13109	-0.00025	0.13084	102%
CN-CCB	Cyanide	-0.04113	µg/l	1/20/15 14:27:10	1	0.00644	-0.00029	0.00614	
CN-CCV	Cyanide	128.30067	µg/l	1/20/15 16:07:49	1	0.13159	-0.00025	0.13134	103%
CN-CCB	Cyanide	-0.05754	µg/l	1/20/15 16:07:50	1	0.00642	0.00001	0.00643	
SI0341-1	Cyanide	1.23326	µg/l	1/20/15 16:07:51	1	0.00768	0.00002	0.0077	NOT FOR REACTIVE VERBALS
SI0341-3	Cyanide	1.73631	µg/l	1/20/15 16:07:52	1	0.00817	0.0001	0.00827	NOT FOR REACTIVE VERBALS
SI0341-5	Cyanide	0.64999	µg/l	1/20/15 16:07:53	1	0.00711	0.00015	0.00726	NOT FOR REACTIVE VERBALS
SI0341-7	Cyanide	0.91015	µg/l	1/20/15 16:07:54	1	0.00736	0.0005	0.00786	NOT FOR REACTIVE VERBALS
SI0341-9	Cyanide	1.52407	µg/l	1/20/15 16:07:55	1	0.00796	0.0009	0.00886	NOT FOR REACTIVE VERBALS
SI0267-5	Cyanide	430.63245	µg/l	1/20/15 16:07:56	1	0.42641	0.00014	0.42655	NOT FOR REACTIVE VERBALS
SI0268-2	Cyanide	1642.04468	µg/l	1/20/15 16:07:57	1	1.60771	0.00053	1.60824	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	135.61249	µg/l	1/20/15 16:10:54	1	0.13872	-0.0002	0.13852	108%
CN-CCB	Cyanide	0.12499	µg/l	1/20/15 16:10:55	1	0.0066	-0.0001	0.0065	
SI0267-5	Cyanide	432.24158	µg/l	1/20/15 16:21:07	2	0.21723	-0.00008	0.21714	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	130.04469	µg/l	1/20/15 16:23:29	1	0.13329	-0.00025	0.13304	104%
CN-CCB	Cyanide	-0.1287	µg/l	1/20/15 16:23:30	1	0.00635	-0.00011	0.00624	
SI0268-2	Cyanide	1824.42419	µg/l	1/20/15 16:29:03	100	0.02427	-0.00027	0.024	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	135.56036	µg/l	1/20/15 16:31:56	1	0.13867	-0.00015	0.13852	108%
CN-CCB	Cyanide	-0.12717	µg/l	1/20/15 16:31:57	1	0.00635	0.00001	0.00636	
SI0268-2	Cyanide	1616.75427	µg/l	1/20/15 16:42:42	10	0.16413	-0.00016	0.16398	NOT FOR REACTIVE VERBALS
CN-CCV	Cyanide	133.0432	µg/l	1/20/15 16:45:04	1	0.13621	-0.00015	0.13606	106%
CN-CCB	Cyanide	0.11773	µg/l	1/20/15 16:45:05	1	0.00659	-0.00001	0.00659	

Laboratory
Analyzer User

Date : 1/20/2015
Time : 16:45

Test: Cyanide
Unit: µg/l

Sample ID:	Result	Date and Time	Note
CN-CCV	118.0192	1/20/2015 12:25	
CN-CCB	0.2256	1/20/2015 12:25	
CN-ICV	186.9622	1/20/2015 12:25	
RCN-Blank	0.2531	1/20/2015 12:25	
RCN-LCS	170.0904	1/20/2015 12:25	
RCN SI0230-1	_____	-	R
RCN SI0301-1	0.7686	1/20/2015 12:25	
RCN SI0301-1 DUP	_____	-	R
RCN SI0301-1 MS	102.8886	1/20/2015 12:25	
RCN SI0301-2	0.2014	1/20/2015 12:25	
Blank 1/20	_____	-	R
LCS 1/20	_____	-	R
CN-CCV	119.9953	1/20/2015 12:31	
CN-CCB	0.4637	1/20/2015 12:31	
High 1/20	_____	-	R
Low 1/20	9.8769	1/20/2015 12:31	
SI0293-1	15.0985	1/20/2015 12:31	
SI0293-1 DUP	15.6392	1/20/2015 12:31	
SI0299-2	_____	-	R
SI0299-2 MS	_____	-	R
SI0312-2	_____	-	R
SI0312-2 MS	_____	-	R
CN-CCV	128.4944	1/20/2015 12:35	
CN-CCB	-0.4347	1/20/2015 12:35	
RCN SI0230-1	3.4952	1/20/2015 12:42	R
RCN SI0301-1 DUP	-0.3371	1/20/2015 12:42	R
Blank 1/20	-0.0005	1/20/2015 12:42	R
CN-CCV	125.1776	1/20/2015 12:44	
CN-CCB	-0.1983	1/20/2015 12:44	
CN-CCV	-1e+002	1/20/2015 12:59	
CN-CCB	0.0542	1/20/2015 12:59	
LCS 1/20	196.6294	1/20/2015 12:59	R
High 1/20	241.6211	1/20/2015 12:59	R
CN-CCV	126.4005	1/20/2015 13:02	
CN-CCB	-0.2107	1/20/2015 13:02	
CN-CCV	122.6295	1/20/2015 14:09	
CN-CCB	0.0220	1/20/2015 14:09	
SI0299-2	0.3528	1/20/2015 14:09	R
SI0299-2 MS	67.0638	1/20/2015 14:09	R
SI0312-2	1.4055	1/20/2015 14:09	R
SI0312-2 MS	95.1935	1/20/2015 14:09	R
SI0316-2	2.0407	1/20/2015 14:09	
SI0260-13	0.2565	1/20/2015 14:09	
SI0260-23	_____	-	R
SI0341-11	_____	-	R
SI0260-5	7.5666	1/20/2015 14:09	
SI0260-7	3.3026	1/20/2015 14:13	
CN-CCV	128.2980	1/20/2015 14:13	
CN-CCB	-0.0493	1/20/2015 14:13	
SI0260-9	1.0550	1/20/2015 14:14	
SI0260-11	1.3021	1/20/2015 14:14	
SI0260-21	6.8625	1/20/2015 14:14	
SI0260-22	13.4596	1/20/2015 14:14	

Laboratory
Analyzer User

Date : 1/20/2015
Time : 16:45

Test Cyanide
Unit µg/l

Sample ID:	Result	Date and Time	Note
CN-CCV	130.2877	1/20/2015 14:16	
CN-CCB	-0.1362	1/20/2015 14:16	
SI0260-23	0.2081	1/20/2015 14:24	R
SI0341-11	0.0552	1/20/2015 14:24	R
CN-CCV	127.7866	1/20/2015 14:27	
CN-CCB	-0.0411	1/20/2015 14:27	
CN-CCV	128.3007	1/20/2015 16:07	
CN-CCB	-0.0575	1/20/2015 16:07	
SI0341-1	1.2333	1/20/2015 16:07	
SI0341-3	1.7363	1/20/2015 16:07	
SI0341-5	0.6500	1/20/2015 16:07	
SI0341-7	0.9102	1/20/2015 16:07	
SI0341-9	1.5241	1/20/2015 16:07	
SI0267-5	_____	-	R
SI0268-2	_____	-	R
CN-CCV	135.6125	1/20/2015 16:10	
CN-CCB	0.1250	1/20/2015 16:10	
SI0267-5	432.2416	1/20/2015 16:21	R
CN-CCV	130.0447	1/20/2015 16:23	
CN-CCB	-0.1287	1/20/2015 16:23	
SI0268-2	_____	-	R
CN-CCV	135.5604	1/20/2015 16:31	
CN-CCB	-0.1272	1/20/2015 16:31	
SI0268-2	2e+003	1/20/2015 16:42	R
CN-CCV	133.0432	1/20/2015 16:45	
CN-CCB	0.1177	1/20/2015 16:45	

Laboratory
Analyzer User

1/20/2015 11:58

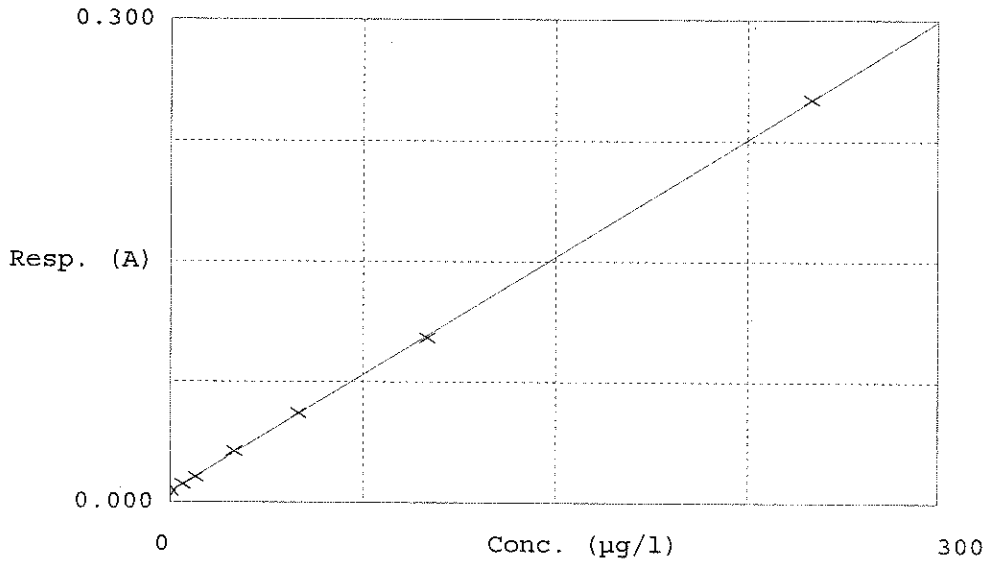
Test Cyanide

Accepted 1/20/2015 11:57

Factor 1025
Bias 0.006

Coeff. of det. 0.999908

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.007	0.40430	0.00000	
2	CN-250	0.011	4.91599	5.00000	
3	CN-250	0.016	9.56476	10.00000	
4	CN-250	0.032	25.97104	25.00000	
5	CN-250	0.055	50.27011	50.00000	
6	CN-250	0.102	98.34305	100.00000	
7	CN-250	0.251	250.53073	250.00000	

W6157158 R305109

KATAHDIN ANALYTICAL

REACTIVE SULFIDE

EPA: 7.3.4.2/9030 PQL: 27 mg/kg

REAGENTS:

IODINE STANDARD:	W12729	STS SOLUTION-0.0375N:	SWL3701
Na2S SOLUTION:	W12702 77492	NaOH-0.25N:	SWL3682
HCl-6N:		H2SO4-0.01N:	NA

STANDARDNIZATION OF I2

VOL(ml) I2	VOL(ml) Na2S2O3
10	6.65
10	6.64
10	6.62
	X:

CALC OF I2 N

STANDARDNIZATION OF H2S

VOL(ml) I2	VOL(ml) Na2S2O3	VOL(ml) Na2S
10	3.56	2
10	3.50	2
10	3.55	2
	X:	

CALC OF H2S mg/L

Time of Analysis	Sample ID	Sample Wt. (g)	NaOH Trap Vol.(ml)	Analysis Vol.(ml)	ml I2 Soln Added	ml STS to Endpoint	Comments
16:10	Blank	—	190	150	10	6.63	
	LCS	—	190	150	25	5.84	
	SIO230-1	10.512	190	150	10	6.60	
	SIO301-1	10.199	190	150	10	6.65	
	MS-1	10.452	190	150	25	6.45	
	DUP-1	10.859	190	150	10	6.65	
16:30	-2	11.674	190	150	10	6.58	

1-16-15

NOTES:

ANALYST: DATE: 1-16-15

CHECKED BY: DATE: 01/20/15

KATAHDIN ANALYTICAL SERVICES

CYANIDE MIDI DISTILLATION: 4500-CN C 335.4 9012B

PQL = 10 ug/L (AQ) & 0.5 mg/kg (SL)

Standard	True Value ug/L	Source Standard ID	Source Standard Spike Amount mL
Cal High Point	250	W12662	0.250
Cal Low Point	10	2	0.010
LCS	200	3	0.200
Matrix Spike	100	3	0.100
Soil LCS			NA

Lot Number:
MgCl2 SOLUTION: SWL3762
SULFAMIC ACID: 2763
NaOH-0.25N: 3682
H2SO4: 78139
BLOCK ID: WC3

Notes:

KAS Sample ID	Res. Cl Check	Res. S2 Check	Initial pH	Distillation Start Time	Distillation End Time	Sample Volume (mL)	Sample Weight (g)	Distillate Volume	Comments
Blank	NA	NA	NA	8:04	10:04	50	NA	50mL	
LCS	NA	NA	NA						
High	NA	NA	NA						
Low	NA	NA	NA						
SI0293-1	–	–	✓						
-1 DUP	–	–	✓						
SI0299-2	–	–	✓						
-2MS	–	–	✓						
SI0312-2	–	–	✓						
-2 MS	–	–	✓						
SI0316-2	–	–	✓	10:58	12:58	50	NA	50mL	
SI0260-13	–	–	✓						
-23	–	–	✓						
SI0341-11	–	–	✓						
SI0260-5	NA	NA	NA			NA	1.896		
-7							1.820		
-9							1.615		
-11							1.533		
-21							1.451		
-22							1.744		

DISTILLED BY: ZS
DISTILLATION DATE: 1.20.15
REVIEWED BY:
REVIEW DATE: 01/23/15

KATAHDIN ANALYTICAL SERVICES

CYANIDE MIDI DISTILLATION: 4500-CN C 335.4 9012B

PQL = 10 ug/L (AQ) & 0.5 mg/kg (SL)

Standard	True Value ug/L	Source Standard ID	Source Standard Spike Amount mL
Cal High Point	250	See Page	
Cal Low Point	10		
LCS	200		
Matrix Spike	100		
Soil LCS			NA

Lot Number:

MgCl2 SOLUTION:

SULFAMIC ACID:

NaOH-0.25N: #24

H2SO4:

BLOCK ID: WC3

Notes:

KAS Sample ID	Res. Cl Check	Res. S2 Check	Initial pH	Distillation Start Time	Distillation End Time	Sample Volume (mL)	Sample Weight (g)	Distillate Volume	Comments
~~Blank~~	NA	NA	NA						
LCS	NA	~~NA~~	NA		ZS 1.20.15				
High	NA	NA	NA						
~~Low~~	NA	NA	NA						
SI0341-1	NA	NA	NA	13:33		NA	1.213	50mL	
-3							1.867		
-5							1.969		
-7							1.665		
-9							1.676		
SI0267-5	—	—	✓			50	NA		P.T.
SI0268-2	NA		1			NA	1.957		

ZS 1.20.15

DISTILLED BY: ZS

REVIEWED BY:

DISTILLATION DATE: 1.20.15

REVIEW DATE: 01/23/15

WL-020 – Revision 2 – 01/19/2011

QAWL751

0000025

Katahdin Analytical Services 0000865

WET CHEMISTRY BATCH REPORT
Jan 20 2015, 09:45 am
Batch: WG157230

Parameter: Ignitability

Prep Date: N/A

Date Analyzed: 14-JAN-15

Prep Method: N/A

Analyst Initials: RO

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SI0226-1	SAMP	SW846 1010A	1.0000mL	1.0000mL	1	71	>71. Deg. C	NA	71	71.	71.		
SI0230-1	SAMP	SW846 1010A	1g	1g	1	71	>71. Deg. C	79.	71	71.	71.		
WG157230-1	MBLANK	SW846 1010A	1.0000mL	1.0000mL	1	71	>71. Deg. C	NA	71	71.	71.		
WG157230-2	LCS	SW846 1010A	1.0000mL	1.0000mL	1	26.571	26. Deg. C	NA	71	71.	71.		98
WG157230-3	LCSD	SW846 1010A	1.0000mL	1.0000mL	1	28.571	28. Deg. C	NA	71	71.	71.	7	106

Comments:

SI0230-1	Roll off 0316
WG157230-1	SI0226-1
WG157230-2	SI0226-1
WG157230-3	SI0226-1

Entered by: [signature] Date: 1/20/15 Accepted by: [signature] Date: 1/20/15

KATAHDIN ANALYTICAL SERVICES, INC. - FLASHPOINT – CLOSED CUP LOGBOOK

WG157230
R305221

METHOD: SW 846 1010	p-XYLENE: 27 Degrees Celcius	Ambient Barometric Pressure (*) = 773 mm Hg (in. of Hg) X (25.4 mm/in)
PQL: 25 Degrees Celcius	p-XYLENE Lot Number: 5WJ366	

Sample ID	Analysis Time	Start Temperature (°C)	End Temperature (°C)	Flash? (Check appropriate box & record temp.)			Reported Flashpoint Corrected For Ambient Barometric Pressure	Comments
				YES	Temp.(°C)	NO		
p-Xylene (LCS)	855	~~25~~ 25	27	✓	27		26.571	
p-Xylene (LCS)	915	25	29	✓	29		28.571	
Method Blank	38	25	71			✓		
SI 0226-1	1025	25	71			✓		
SI 0230-1	1052	25	71			✓		

QAWL744

* = Ambient Pressure of the laboratory at the time of the test. When the pressure differs from 760 mm Hg, correct the flashpoint as follows: Corrected Flashpoint = (Observed Flashpoint in °C) + 0.033 (760 - the ambient barometric pressure in mm Hg).

-0.429

Analyst MV Date 1/14/15

Reviewed By [signature] Date 01/15/2015

WL-029 – REVISION 1 – 10/06/2010

WET CHEMISTRY BATCH REPORT
Jan 21 2015, 10:00 am
Batch: WG157289

Parameter: Paint Filter Liquids Test

Date Analyzed: 20-JAN-15

Analyst Initials: RO

Prep Date: N/A

Prep Method: N/A

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SI0230-1	SAMP	SW846 9095B					NFL	79.					
WG157289-1	MBLANK	SW846 9095B					NFL	NA					

Comments:

SI0230-1	Roll off 0316
WG157289-1	SI0230-1

Entered by: RO Date: 1/21/15 Accepted by: [signature] Date: 01/21/15

WG157289 R305405

KATAHDIN ANALYTICAL SERVICES, INC.

PAINT FILTER TEST

METHOD: SW846 9095

PAINT FILTER: MESH SIZE 60

COMMENTS:

NFL=No Free Liquid FLP=Free Liquid Present

CLIENT ID	KAS SAMPLE ID	ANALYSIS TIME IN	ANALYSIS TIME OUT	SAMPLE WEIGHT(g)	FREE LIQUIDS AFTER 5 MINUTES
	Blank	14:20	14:25	100.195	NFL
	510230-1	14:21	14:26	100.096	NFL

ANALYST: [signature] DATE: 1-20-15

CHECKED BY: [signature] DATE: 01/21/15

WET CHEMISTRY BATCH REPORT
Jan 19 2015, 11:13 am
Batch: WG157158

Parameter: Sulfide,Reactive

Date Analyzed: 16-JAN-15

Analyst Initials: AZ

Prep Date: 16-JAN-15

Prep Method: SW846 7.3.4

Prep Chemist: AZ

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SI0230-1	SAMP	SW846 7.3.4	10.512g	190.00mL	.95	.02	U20 mg/Kg	79.	27	16.39	27		
SI0301-1	SAMP	SW846 7.3.4	10.199g	190.00mL	.98	-.01	U20 mg/Kg	NA	27	16.39	27		
SI0301-2	SAMP	SW846 7.3.4	11.674g	190.00mL	.86	.03	U20 mg/Kg	NA	27	16.39	27		
WG157158-1	MBLANK	SW846 7.3.4	10.000g	190.00mL	1	0	U20. mg/Kg	NA	27	16.39	27.		
WG157158-2	LCS	SW846 7.3.4	10.000g	190.00mL	1	6.46	870 mg/Kg	NA	27	16.39	27.		88
WG157158-3	MS	SW846 7.3.4	10.452g	190.00mL	.96	6.1	780 mg/Kg	NA	27	16.39	27		79
WG157158-4	DUP	SW846 7.3.4	10.859g	190.00mL	.92	-.01	U20 mg/Kg	NA	27	16.39	27	NC	

Comments:

SI0230-1	Roll off 0316
SI0301-1	Roll off 9939 (#2)
SI0301-2	Roll off 1408 (#7)
WG157158-1	SI0301-1
WG157158-2	SI0301-1
WG157158-3	SI0301-1
WG157158-4	SI0301-1

Entered by: AB Date: 1-19-15 Accepted by: Date: 01/20/15

REACTIVE SULFIDES
TITRIMETRIC

EPA: 7.3.4.2/9030
PQL = 27 mg/kg

DATE:	1/16/2015
ANALYST:	AZ

STANDARDIZATION OF IODINE SOLUTION

VOL (mL) I_2	VOL (mL) $Na_2S_2O_3$
10.00	6.65
10.00	6.64
10.00	6.62
Mean $Na_2S_2O_3$=	**6.64**

CALC I_2 N =	**0.02489**

STANDARDIZATION OF SODIUM SULFIDE STANDARD

VOL (mL) I_2	VOL (mL) NA_2S	VOL (mL) $Na_2S_2O_3$
10.00	2.00	3.56
10.00	2.00	3.50
10.00	2.00	3.55
Mean Vol $Na_2S_2O_3$=		**3.54**

CALC NA_2S (mg H_2S/L):	**985.80**

$Na_2S_2O_3$ Normality:	0.0375

Sample ID	Sample Wt. (g)	Trap Vol. (mL)	Analysis Vol. (mL)	Volume I_2 Added (mL)	Volume $Na_2S_2O_3$ Added (mL)	Extraction Time (sec)	Calc. Sulfide (as S) in Analysis Aliquot (mg)	Releasable H_2S in Smpl. (mg/kg)	Recovery (%)	Duplicate RPD (%)
BLK	10.000	190.00	150.00	10.00	6.63	1800.00	0.00	0.54		
LCS S2	10.000	190.00	150.00	25.00	5.84	1800.00	6.46	870.23	88.3	
SI0230-1	10.512	190.00	150.00	10.00	6.60	1800.00	0.02	2.82		
SI0301-1	10.199	190.00	150.00	10.00	6.65	1800.00	-0.01	-1.06		
SI0301-1 MS	10.452	190.00	150.00	25.00	6.45	1800.00	6.10	785.36		
SI0301-1 DUP	10.859	190.00	150.00	10.00	6.65	1800.00	-0.01	-0.99		
SI0301-2	11.674	190.00	150.00	10.00	6.58	1800.00	0.03	3.93		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		
							0.00	#DIV/0!		

W6157158 R305109

KATAHDIN ANALYTICAL

REACTIVE SULFIDE

EPA: 7.3.4.2/9030 PQL: 27 mg/kg

REAGENTS:

IODINE STANDARD: W12729
Na2S SOLUTION: W12702
HCl-6N: 77492

STS SOLUTION-0.0375N: SWL3701
NaOH-0.25N: SWL3682
H2SO4-0.01N: NA

STANDARDNIZATION OF I2

VOL(ml) I2	VOL(ml) Na2S2O3
10	6.65
10	6.64
10	6.62
	X:

CALC OF I2 N

STANDARDNIZATION OF H2S

VOL(ml) I2	VOL(ml) Na2S2O3	VOL(ml) Na2S
10	3.56	2
10	3.50	2
10	3.55	2
	X:	

CALC OF H2S mg/L

Time of Analysis	Sample ID	Sample Wt. (g)	NaOH Trap Vol.(ml)	Analysis Vol.(ml)	ml I2 Soln Added	ml STS to Endpoint	Comments
16:10	Blank	—	190	150	10	6.63	
	LCS	—	190	150	25	5.84	
	SIO230-1	10.512	190	150	10	6.60	
	SIO301-1	10.199	190	150	10	6.65	
	MS -1	10.452	190	150	25	6.45	
	DUP -1	10.859	190	150	10	6.65	
16:30	-2	11.674	190	150	10	6.58	

1-16-15

NOTES:

ANALYST: DATE: 1-16-15

CHECKED BY: DATE: 01/20/15

TOTAL SOLIDS BATCH REPORT
Jan 16 2015, 09:55 am
Batch: WG157022

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SI0171-7	SL	SAMP	WG157022	15-JAN-15	1.3131 g	11.7189 g	10.2828 g	AZ	16-JAN-15	86.1990	86. %		
SI0172-11	SL	SAMP	WG157022	15-JAN-15	1.3223 g	11.3112 g	11.0333 g	AZ	16-JAN-15	97.2180	97. %		
SI0172-13	SL	SAMP	WG157022	15-JAN-15	1.3222 g	14.1494 g	12.7208 g	AZ	16-JAN-15	88.8630	89. %		
SI0172-7	SL	SAMP	WG157022	15-JAN-15	1.315 g	14.028 g	13.4921 g	AZ	16-JAN-15	95.7850	96. %		
SI0172-9	SL	SAMP	WG157022	15-JAN-15	1.3188 g	16.7229 g	16.0793 g	AZ	16-JAN-15	95.8220	96. %		
SI0199-1	SL	SAMP	WG157022	15-JAN-15	1.329 g	12.0966 g	11.0412 g	AZ	16-JAN-15	90.1980	90. %		
SI0199-3	SL	SAMP	WG157022	15-JAN-15	1.3122 g	7.8398 g	7.5072 g	AZ	16-JAN-15	94.9050	95. %		
SI0199-4	SL	SAMP	WG157022	15-JAN-15	1.3233 g	5.3052 g	4.4955 g	AZ	16-JAN-15	79.6650	80. %		
SI0199-5	SL	SAMP	WG157022	15-JAN-15	1.3206 g	9.0434 g	8.7086 g	AZ	16-JAN-15	95.6650	96. %		
SI0199-6	SL	SAMP	WG157022	15-JAN-15	1.321 g	8.3888 g	7.2031 g	AZ	16-JAN-15	83.2240	83. %		
SI0230-1	SL	SAMP	WG157022	15-JAN-15	1.318 g	9.4049 g	7.7414 g	AZ	16-JAN-15	79.4300	79. %		
SI0260-1	SL	SAMP	WG157022	15-JAN-15	1.3233 g	11.2461 g	8.4825 g	AZ	16-JAN-15	72.1490	72. %		
SI0260-10	SL	SAMP	WG157022	15-JAN-15	1.3332 g	10.0451 g	6.8833 g	AZ	16-JAN-15	63.7070	64. %		
SI0260-11	SL	SAMP	WG157022	15-JAN-15	1.3225 g	15.3094 g	9.9773 g	AZ	16-JAN-15	61.8780	62. %		
SI0260-12	SL	SAMP	WG157022	15-JAN-15	1.3225 g	15.3094 g	9.9773 g	AZ	16-JAN-15	61.8780	62. %		
SI0260-15	SL	SAMP	WG157022	15-JAN-15	1.3192 g	10.4329 g	7.8735 g	AZ	16-JAN-15	71.9170	72. %		
SI0260-16	SL	SAMP	WG157022	15-JAN-15	1.3165 g	11.0363 g	9.3468 g	AZ	16-JAN-15	82.6180	83. %		
SI0260-2	SL	SAMP	WG157022	15-JAN-15	1.3233 g	11.2461 g	8.4825 g	AZ	16-JAN-15	72.1490	72. %		
SI0260-3	SL	SAMP	WG157022	15-JAN-15	1.3076 g	10.1611 g	6.1653 g	AZ	16-JAN-15	54.8680	55. %		
SI0260-5	SL	SAMP	WG157022	15-JAN-15	1.3149 g	9.8319 g	6.7274 g	AZ	16-JAN-15	63.5490	64. %		
SI0260-6	SL	SAMP	WG157022	15-JAN-15	1.3149 g	9.8319 g	6.7274 g	AZ	16-JAN-15	63.5490	64. %		
SI0260-7	SL	SAMP	WG157022	15-JAN-15	1.3083 g	10.9318 g	7.5371 g	AZ	16-JAN-15	64.7250	65. %		
SI0260-8	SL	SAMP	WG157022	15-JAN-15	1.3083 g	10.9318 g	7.5371 g	AZ	16-JAN-15	64.7250	65. %		
SI0260-9	SL	SAMP	WG157022	15-JAN-15	1.3332 g	10.0451 g	6.8833 g	AZ	16-JAN-15	63.7070	64. %		
WG157022-1	SL	MBLANK	WG157022	15-JAN-15	1.3265 g	1.8246 g	1.3259 g	AZ	16-JAN-15	-0.1200	1 %		
WG157022-2	SL	LCS	WG157022	15-JAN-15	1.3335 g	6.3351 g	5.8319 g	AZ	16-JAN-15	89.9390	90. %	100	
WG157022-3	SL	DUP	WG157022	15-JAN-15	1.3203 g	13.1672 g	12.6717 g	AZ	16-JAN-15	95.8170	96. %		0
WG157022-4	SL	DUP	WG157022	15-JAN-15	1.3227 g	13.0267 g	12.5441 g	AZ	16-JAN-15	95.8770	96. %		0

Comments:

SI0230-1	Roll off 0316
SI0260-10	use TS from SI0260-9
SI0260-12	use TS from SI0260-11
SI0260-2	use TS from SI0260-1
SI0260-6	use TS from SI0260-5
SI0260-8	use TS from SI0260-7
WG157022-1	SI0172-7
WG157022-2	SI0172-7
WG157022-3	SI0172-7
WG157022-4	SI0172-9

Entered by: _____ Date: 1-16-15

Accepted by: _____ Date: 01/16/15

WG157022 R304882

KATAHDIN ANALYTICAL SERVICES, INC.

TOTAL SOLIDS: ASTM D2216 - PQL: 0.10%				TOTAL VOLATILE SOLIDS: SM2540 G / E160.4 - PQL 0.10%	
ANALYST IN: [illegible]	TS ANALYST OUT: [illegible] ~~1-16-15~~			TVS ANALYST OUT:	Balance Calibrated?
DATE IN: 1-15-15	TS DATE OUT: 1-16-15			TVS DATE OUT:	Y / N
TIME IN: 16:48	TS TIME OUT: 8:13			TVS TIME OUT:	In: Y
TEMP IN: 102°C	TS TEMP OUT: 100°C			TVS TEMP OUT:	Out (TS): Y
Oven ID:	Muffle Oven ID: 030807 (assigned)			BALANCE ID: OHAUS - SN: 112401631	Out (TVS):

SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
Blank	21.	-				
LCS	22.					
SIC171-7	1.					
SIC172-7	2.					
-9	3.	=				
-11	4.					
-13	5.					
SIC199-1	6.					
-3	7.					
-4	8.					
-5	9.					
-6	10.					
SIC230-1	11.					
SIC260-1/2	12.					
-3	13.					
-5/-6	14.					
-7/-8	15.					
-9/-10	16.					
-11	17.					
-12	~~18~~ 19. 1-16-15					
-15	19.					
-16	20.					
SIC 172-7 DUP	23.					
SIC 172-9 DUP	24.					

CHECKED BY: [signature] DATE: 01/16/15

WET CHEMISTRY BATCH REPORT
Jan 16 2015, 03:49 pm
Batch: WG157086

Parameter: pH(Laboratory)

Date Analyzed: 16-JAN-15

Analyst Initials: AZ

Prep Date: N/A

Prep Method: N/A

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SI0230-2	SAMP	SM 4500H-B	20.000mL	20.000mL	1	7.7	7.7 pH	NA	.1	0.10	0.10		
SI0230-3	SAMP	SM 4500H-B	20.000mL	20.000mL	1	7.64	7.6 pH	NA	.1	0.10	0.10		
SI0230-4	SAMP	SM 4500H-B	20.000mL	20.000mL	1	8.03	8.0 pH	NA	.1	0.10	0.10		
WG157086-1	LCS	SM 4500H-B	20.000mL	20.000mL	1	7	7.0 pH	NA	.1	0.10	0.10		
WG157086-2	DUP	SM 4500H-B	20.000mL	20.000mL	1	7.8	7.8 pH	NA	.1	0.10	0.10	1	100

Comments:

SI0230-2	Frac Tank #7
SI0230-3	Frac Tank #6
SI0230-4	Frac Tank #1
WG157086-1	SI0230-2
WG157086-2	SI0230-2

Entered by: _____ Date: 1-16-15 Accepted by: _____ Date: 01/16/15

W615086 R305000

KATAHDIN ANALYTICAL

pH ELECTROMETRIC

pH meter Accumet 20 Serial Number C0024321 Probe ID:

EPA: 150.1_____ SM 4500H- B_____ SW846 9040_____

CALIBRATION STDS:	CALIBRATED TO:	LOT NO:
pH 7.00	7.00	SCVL 3722
pH 4.00	3.99	SCVL 3712
pH 10.00	9.97	SCVL 3617
pH 12.00	12.03	SCVL 3692

SAMPLE ID	SITE ID	TIME OF ANALYSIS	pH	REPORTED pH	SAMPLE TEMP.	NOTES
LCS		15:32	7.00		20.7	
SI 0230-2			7.70		20.9	
+ DUP			7.80		21.3	
-3			7.64		21.0	
-4			8.03		20.8	
LCS		15:42	7.03		20.7	

1-16-15

ANALYST: DATE: 1-16-15

CHECKED BY: DATE: 01/16/15

WET CHEMISTRY BATCH REPORT
Jan 15 2015, 09:59 am
Batch: WG156983

Parameter: pH(Soil)

Date Analyzed: 14-JAN-15

Analyst Initials: AZ

Prep Date: 14-JAN-15

Prep Method: SW846 9045C

Prep Chemist: AZ

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SI0137-1	SAMP	SW846 9045D	10.2818g	20mL	1	8.08	8.1 pH	NA	.1	0.10	0.10		
SI0137-2	SAMP	SW846 9045D	10.9556g	20mL	1	7.4	7.4 pH	NA	.1	0.10	0.10		
SI0145-1	SAMP	SW846 9045D	10.3441g	20mL	1	12.69	13. pH	65.	.1	0.10	0.10		
SI0171-1	SAMP	SW846 9045D	10.1914g	20mL	1	8.16	8.2 pH	NA	.1	0.10	0.10		
SI0171-2	SAMP	SW846 9045D	10.3785g	20mL	1	8.17	8.2 pH	NA	.1	0.10	0.10		
SI0171-4	SAMP	SW846 9045D	11.0316g	20mL	1	7.74	7.7 pH	NA	.1	0.10	0.10		
SI0171-6	SAMP	SW846 9045D	11.8051g	20mL	1	7.27	7.3 pH	NA	.1	0.10	0.10		
SI0171-8	SAMP	SW846 9045D	11.0315g	20mL	1	7.06	7.1 pH	NA	.1	0.10	0.10		
SI0171-9	SAMP	SW846 9045D	10.4332g	20mL	1	5.76	5.8 pH	NA	.1	0.10	0.10		
SI0172-11	SAMP	SW846 9045D	15.5907g	20mL	1	8.32	8.3 pH	NA	.1	0.10	0.10		
SI0172-5	SAMP	SW846 9045D	10.5932g	20mL	1	8.7	8.7 pH	NA	.1	0.10	0.10		
SI0172-7	SAMP	SW846 9045D	14.2541g	20mL	1	8.62	8.6 pH	NA	.1	0.10	0.10		
SI0172-9	SAMP	SW846 9045D	14.0991g	20mL	1	8.8	8.8 pH	NA	.1	0.10	0.10		
SI0199-1	SAMP	SW846 9045D	10.7409g	20mL	1	8.34	8.3 pH	NA	.1	0.10	0.10		
SI0199-3	SAMP	SW846 9045D	11.1411g	20mL	1	8.48	8.5 pH	NA	.1	0.10	0.10		
SI0199-4	SAMP	SW846 9045D	11.1133g	20mL	1	8.04	8.0 pH	NA	.1	0.10	0.10		
SI0199-5	SAMP	SW846 9045D	10.0101g	20mL	1	8.34	8.3 pH	NA	.1	0.10	0.10		
SI0199-6	SAMP	SW846 9045D	10.1871g	20mL	1	8.09	8.1 pH	NA	.1	0.10	0.10		
WG156983-1	LCS	SW846 9045D	20g	20mL	1	6.97	7.0 pH	NA	.1	0.10	0.10		100
WG156983-2	DUP	SW846 9045D	10.0274g	20mL	1	6.93	6.9 pH	NA	.1	0.10	0.10	2	
WG156983-3	DUP	SW846 9045D	11.1774g	20mL	1	7.96	8.0 pH	NA	.1	0.10	0.10	2	

Comments:

SI0171-8	MS/MSD on all except pH and TOC
WG156983-1	SI0171-8
WG156983-2	SI0171-8
WG156983-3	SI0199-6

Entered by: AB Date: 1-15-15 Accepted by: Date: 01/15/15

WET CHEMISTRY BATCH REPORT
Jan 15 2015, 10:00 am
Batch: WG156986

Parameter: pH(Soil)

Date Analyzed: 14-JAN-15

Analyst Initials: AZ

Prep Date: 14-JAN-15

Prep Method: SW846 9045C

Prep Chemist: AZ

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SI0220-1	SAMP	SW846 9045D	7.6049g	20mL	1	6.3	6.3 pH	NA	.1	0.10	0.10		
SI0227-1	SAMP	SW846 9045D	6.4412g	20mL	1	7.38	7.4 pH	NA	.1	0.10	0.10		
SI0227-2	SAMP	SW846 9045D	5.8979g	20mL	1	7.49	7.5 pH	NA	.1	0.10	0.10		
SI0227-3	SAMP	SW846 9045D	5.9826g	20mL	1	7.4	7.4 pH	NA	.1	0.10	0.10		
SI0227-4	SAMP	SW846 9045D	5.7083g	20mL	1	7.45	7.4 pH	NA	.1	0.10	0.10		
SI0230-1	SAMP	SW846 9045D	12.1565g	20mL	1	8.28	8.3 pH	NA	.1	0.10	0.10		
WG156986-1	LCS	SW846 9045D	20g	20mL	1	7.03	7.0 pH	NA	.1	0.10	0.10		100
WG156986-2	DUP	SW846 9045D	10.6073g	20mL	1	8.25	8.2 pH	NA	.1	0.10	0.10	0	

Comments:

SI0230-1	Roll off 0316
WG156986-1	SI0230-1
WG156986-2	SI0230-1

Entered by: AZ Date: 1-15-15 Accepted by: [signature] Date: 1/15/15

R304762
WG156983

WG156986

KATAHDIN ANALYTICAL SERVICES, INC.

CORROSIVITY pH / pH Soil

Accumet 20 pH Meter - SN - C0024321 pH Probe SN -

SW 846 9045D

CALIBRATION STDS:	CALIBRATED TO:	LOT NO:	NOTES:
pH 2.00	2.02	SWL 3617	
pH 4.00	4.00	SWL 3712	
pH 7.00	7.00	SWL 3722	
pH 10.00	9.99	SWL 3647	
pH 12.00	12.01	SWL 3692	

LAB SAMPLE ID	ANALYSIS TIME	SAMPLE VOL (mL)	SAMPLE WEIGHT(g)	SAMPLE TEMP. (°C)	pH	REPORTED pH
LCS	16:50	—	—	20.5	6.97	
SI 0137-1		40	10.2818	19.5	8.08	
-2			10.9556	19.5	7.40	
SI 0145-1			10.3441	19.5	12.69	
SI 0171-1			10.1914	19.2	8.16	
-2			10.3785	19.2	8.17	
-4			11.0316	19.0	7.74	
-6			11.8051	19.0	7.27	
-8			11.0315	19.1	7.06	
-9			10.4332	19.2	5.76	
DUP -8			10.0274	19.3	6.93	
LCS		—	—	20.9	7.01	
SI 0172-5		40	10.5932	20.6	8.70	
-7			14.2541	20.3	8.62	
-9			14.0991	20.2	8.80	
-11			15.5907	20.0	8.32	
SI 0199-1			10.7409	19.8	8.34	
-3			11.1411	19.9	8.46	
-4			11.1133	19.7	8.04	
-5			10.0101	19.5	8.34	
-6			10.1871	19.3	8.09	
DUP-6 ~~LCS~~			11.1774	19.5	7.96	
LCS		—	—	20.9	7.03	
SI 0220-1		40	7.6049	20.5	6.30	
SI 0227-1	17:50		6.4412	20.4	7.38	

PREP ANALYST: [signature] DATE/TIME: 1-14-15 13:04

ANALYST: [signature] DATE: 1-14-15

CHECKED BY: [signature] DATE: 01/15/15

Continued on page 51

WL6156986

KATAHDIN ANALYTICAL SERVICES, INC.

CORROSIVITY pH / pH Soil

Accumet 20 pH Meter - SN - C0024321 pH Probe SN -

SW 846 9045D

CALIBRATION STDS:	CALIBRATED TO:	LOT NO:	NOTES:
pH 2.00	2.02	SWL 3617	
pH 4.00	4.00	SWL 3712	
pH 7.00	7.00	SWL 3722	
pH 10.00	9.99	SWL 3647	
pH 12.00	12.01	SWL 3697	

LAB SAMPLE ID	ANALYSIS TIME	SAMPLE VOL (mL)	SAMPLE WEIGHT(g)	SAMPLE TEMP. (°C)	pH	REPORTED pH
SI0227-2	17:55	40	5.8979	20.2	7.49	
-3	↓	↓	5.9826	20.0	7.40	
-4			5.7083	19.8	7.45	
SI0230-1			12.1565	19.8	8.28	
Dup -1	↓	↓	10.6073	19.6	8.25	
LCS	18:00	—	—	20.5	7.03	

1-14-15

PREP ANALYST:	AB	DATE/TIME:	1-14-15 13:04
ANALYST:	AB	DATE:	1-14-15
CHECKED BY:	[illegible]	DATE:	01/16/15

Continued from page 50.